

class14:rnaseq mini

import data

counts metadata what DESeq calls colDATA as it describes the columns in the counts ##
data cleanup

```
counts <- read.csv("GSE37704_featurecounts.csv", row.names=1)
metadata <- read.csv("GSE37704_metadata.csv")
head(counts)
```

	length	SRR493366	SRR493367	SRR493368	SRR493369	SRR493370
ENSG00000186092	918	0	0	0	0	0
ENSG00000279928	718	0	0	0	0	0
ENSG00000279457	1982	23	28	29	29	28
ENSG00000278566	939	0	0	0	0	0
ENSG00000273547	939	0	0	0	0	0
ENSG00000187634	3214	124	123	205	207	212
	SRR493371					
ENSG00000186092	0					
ENSG00000279928	0					
ENSG00000279457	46					
ENSG00000278566	0					
ENSG00000273547	0					
ENSG00000187634	258					

```
head(metadata)
```

	id	condition
1	SRR493366	control_sirna
2	SRR493367	control_sirna
3	SRR493368	control_sirna

```
4 SRR493369      hoxa1_kd
5 SRR493370      hoxa1_kd
6 SRR493371      hoxa1_kd
```

we want the columns in counts to match the rows in metadata

```
colnames(counts)
```

```
[1] "length"      "SRR493366" "SRR493367" "SRR493368" "SRR493369" "SRR493370"
[7] "SRR493371"
```

```
metadata$id
```

```
[1] "SRR493366" "SRR493367" "SRR493368" "SRR493369" "SRR493370" "SRR493371"
```

we can get rid of the first column in counts

```
countData <- counts[,-1]
head(countData)
```

	SRR493366	SRR493367	SRR493368	SRR493369	SRR493370	SRR493371
ENSG00000186092	0	0	0	0	0	0
ENSG00000279928	0	0	0	0	0	0
ENSG00000279457	23	28	29	29	28	46
ENSG00000278566	0	0	0	0	0	0
ENSG00000273547	0	0	0	0	0	0
ENSG00000187634	124	123	205	207	212	258

```
colnames(countData)
```

```
[1] "SRR493366" "SRR493367" "SRR493368" "SRR493369" "SRR493370" "SRR493371"
```

```
colnames(countData) == metadata$id
```

```
[1] TRUE TRUE TRUE TRUE TRUE TRUE
```

```
all(colnames(countData) == metadata$id)
```

```
[1] TRUE
```

```
x <- c(T,F,T,T)
if(all(x)){
  cat("Me happy")
} else{
  cat("Me no happy")
}
```

Me no happy

##filter out zero counts it is practice to remove any genes that we have no data for.

```
tp.keep.inds <- rowSums(countData) > 0
cleanCounts <- countData[tp.keep.inds,]
head(cleanCounts)
```

	SRR493366	SRR493367	SRR493368	SRR493369	SRR493370	SRR493371
ENSG00000279457	23	28	29	29	28	46
ENSG00000187634	124	123	205	207	212	258
ENSG00000188976	1637	1831	2383	1226	1326	1504
ENSG00000187961	120	153	180	236	255	357
ENSG00000187583	24	48	65	44	48	64
ENSG00000187642	4	9	16	14	16	16

setup fro DESeup

```
#!/ message: false
library(DESeq2)
```

Loading required package: S4Vectors

Loading required package: stats4

Loading required package: BiocGenerics

Attaching package: 'BiocGenerics'

The following objects are masked from 'package:stats':

IQR, mad, sd, var, xtabs

The following objects are masked from 'package:base':

anyDuplicated, aperm, append, as.data.frame, basename, cbind,
colnames, dirname, do.call, duplicated, eval, evalq, Filter, Find,
get, grep, grepl, intersect, is.unsorted, lapply, Map, mapply,
match, mget, order, paste, pmax, pmax.int, pmin, pmin.int,
Position, rank, rbind, Reduce, rownames, sapply, saveRDS, setdiff,
table, tapply, union, unique, unsplit, which.max, which.min

Attaching package: 'S4Vectors'

The following object is masked from 'package:utils':

findMatches

The following objects are masked from 'package:base':

expand.grid, I, unname

Loading required package: IRanges

Loading required package: GenomicRanges

Loading required package: GenomeInfoDb

Loading required package: SummarizedExperiment

Loading required package: MatrixGenerics

Loading required package: matrixStats

Attaching package: 'MatrixGenerics'

The following objects are masked from 'package:matrixStats':

colAlls, colAnyNAs, colAnys, colAvgPerRowSet, colCollapse,
colCounts, colCummaxs, colCummins, colCumprods, colCumsums,
colDiffs, colIQRDiffs, colIQRs, colLogSumExps, colMadDiffs,
colMads, colMaxs, colMeans2, colMedians, colMins, colOrderStats,
colProds, colQuantiles, colRanges, colRanks, colSdDiffs, colSds,
colSums2, colTabulates, colVarDiffs, colVars, colWeightedMads,
colWeightedMeans, colWeightedMedians, colWeightedSds,
colWeightedVars, rowAlls, rowAnyNAs, rowAnys, rowAvgPerColSet,
rowCollapse, rowCounts, rowCummaxs, rowCummins, rowCumprods,
rowCumsums, rowDiffs, rowIQRDiffs, rowIQRs, rowLogSumExps,
rowMadDiffs, rowMads, rowMaxs, rowMeans2, rowMedians, rowMins,
rowOrderStats, rowProds, rowQuantiles, rowRanges, rowRanks,
rowSdDiffs, rowSds, rowSums2, rowTabulates, rowVarDiffs, rowVars,
rowWeightedMads, rowWeightedMeans, rowWeightedMedians,
rowWeightedSds, rowWeightedVars

Loading required package: Biobase

Welcome to Bioconductor

Vignettes contain introductory material; view with
'browseVignettes()'. To cite Bioconductor, see
'citation("Biobase")', and for packages 'citation("pkgname")'.

Attaching package: 'Biobase'

The following object is masked from 'package:MatrixGenerics':

rowMedians

The following objects are masked from 'package:matrixStats':

anyMissing, rowMedians

```
dds <- DESeqDataSetFromMatrix(countData=cleanCounts,
                              colData=metadata,
                              design= ~condition)
```

Warning in DESeqDataSet(se, design = design, ignoreRank): some variables in design formula are characters, converting to factors

```
##DESeq
```

```
dds <- DESeq(dds)
```

```
estimating size factors
```

```
estimating dispersions
```

```
gene-wise dispersion estimates
```

```
mean-dispersion relationship
```

```
final dispersion estimates
```

```
fitting model and testing
```

```
res <-results(dds)
```

```
##Inspect Restuls
```

```
head(res)
```

log2 fold change (MLE): condition hoxa1 kd vs control sirna

Wald test p-value: condition hoxa1 kd vs control sirna

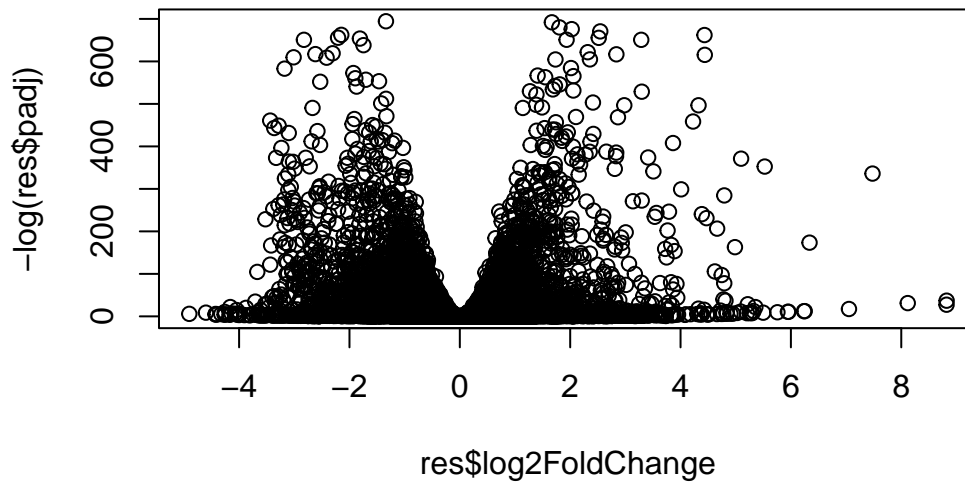
DataFrame with 6 rows and 6 columns

	baseMean	log2FoldChange	lfcSE	stat	pvalue
	<numeric>	<numeric>	<numeric>	<numeric>	<numeric>
ENSG00000279457	29.9136	0.1792571	0.3248216	0.551863	5.81042e-01
ENSG00000187634	183.2296	0.4264571	0.1402658	3.040350	2.36304e-03
ENSG00000188976	1651.1881	-0.6927205	0.0548465	-12.630158	1.43989e-36
ENSG00000187961	209.6379	0.7297556	0.1318599	5.534326	3.12428e-08

ENSG00000187583	47.2551	0.0405765	0.2718928	0.149237	8.81366e-01
ENSG00000187642	11.9798	0.5428105	0.5215599	1.040744	2.97994e-01
	padj				
	<numeric>				
ENSG00000279457	6.86555e-01				
ENSG00000187634	5.15718e-03				
ENSG00000188976	1.76549e-35				
ENSG00000187961	1.13413e-07				
ENSG00000187583	9.19031e-01				
ENSG00000187642	4.03379e-01				

##data viz

```
plot(res$log2FoldChange, -log(res$padj))
```



##pathway analysis

```
head(res)
```

```
log2 fold change (MLE): condition hoxa1 kd vs control sirna
Wald test p-value: condition hoxa1 kd vs control sirna
DataFrame with 6 rows and 6 columns
```

	baseMean	log2FoldChange	lfcSE	stat	pvalue
	<numeric>	<numeric>	<numeric>	<numeric>	<numeric>
ENSG00000279457	29.9136	0.1792571	0.3248216	0.551863	5.81042e-01
ENSG00000187634	183.2296	0.4264571	0.1402658	3.040350	2.36304e-03
ENSG00000188976	1651.1881	-0.6927205	0.0548465	-12.630158	1.43989e-36
ENSG00000187961	209.6379	0.7297556	0.1318599	5.534326	3.12428e-08
ENSG00000187583	47.2551	0.0405765	0.2718928	0.149237	8.81366e-01
ENSG00000187642	11.9798	0.5428105	0.5215599	1.040744	2.97994e-01

	padj
	<numeric>
ENSG00000279457	6.86555e-01
ENSG00000187634	5.15718e-03
ENSG00000188976	1.76549e-35
ENSG00000187961	1.13413e-07
ENSG00000187583	9.19031e-01
ENSG00000187642	4.03379e-01

##anotation of genes

first I need to translate my ensemble id in my res object. to entrez and gene symbol formats
for this I will use the AnnotationDbi package and it is mapids() function,

```
library(AnnotationDbi)
library(org.Hs.eg.db)
```

```
columns(org.Hs.eg.db)
```

[1]	"ACCNUM"	"ALIAS"	"ENSEMBL"	"ENSEMBLPROT"	"ENSEMBLTRANS"
[6]	"ENTREZID"	"ENZYME"	"EVIDENCE"	"EVIDENCEALL"	"GENENAME"
[11]	"GENETYPE"	"GO"	"GOALL"	"IPI"	"MAP"
[16]	"OMIM"	"ONTOLOGY"	"ONTOLOGYALL"	"PATH"	"PFAM"
[21]	"PMID"	"PROSITE"	"REFSEQ"	"SYMBOL"	"UCSCKG"
[26]	"UNIPROT"				

lets map it to symbol, entrezid, genename

```
res$genename <- mapIds(org.Hs.eg.db,keys=rownames(res),keytype="ENSEMBL",column="GENENAME")
```


'select()' returned 1:many mapping between keys and columns

```
res$entrez_id <- mapIds(org.Hs.eg.db,keys=rownames(res),keytype="ENSEMBL",column="ENTREZID")
```

'select()' returned 1:many mapping between keys and columns

```
res$symbol <-mapIds(org.Hs.eg.db,keys=rownames(res),keytype="ENSEMBL",column="SYMBOL")
```

'select()' returned 1:many mapping between keys and columns

```
head(res)
```

log2 fold change (MLE): condition hoxa1 kd vs control sirna

Wald test p-value: condition hoxa1 kd vs control sirna

DataFrame with 6 rows and 9 columns

	baseMean	log2FoldChange	lfcSE	stat	pvalue
	<numeric>	<numeric>	<numeric>	<numeric>	<numeric>
ENSG00000279457	29.9136	0.1792571	0.3248216	0.551863	5.81042e-01
ENSG00000187634	183.2296	0.4264571	0.1402658	3.040350	2.36304e-03
ENSG00000188976	1651.1881	-0.6927205	0.0548465	-12.630158	1.43989e-36
ENSG00000187961	209.6379	0.7297556	0.1318599	5.534326	3.12428e-08
ENSG00000187583	47.2551	0.0405765	0.2718928	0.149237	8.81366e-01
ENSG00000187642	11.9798	0.5428105	0.5215599	1.040744	2.97994e-01
	padj	genename	entrez_id	symbol	
	<numeric>	<character>	<character>	<character>	
ENSG00000279457	6.86555e-01	NA	NA	NA	
ENSG00000187634	5.15718e-03	sterile alpha motif ..	148398	SAMD11	
ENSG00000188976	1.76549e-35	NOC2 like nucleolar ..	26155	NOC2L	
ENSG00000187961	1.13413e-07	kelch like family me..	339451	KLHL17	
ENSG00000187583	9.19031e-01	pleckstrin homology ..	84069	PLEKHN1	
ENSG00000187642	4.03379e-01	PPARGC1 and ESRR ind..	84808	PERM1	

Before going further, lets focus in on a subset of top genes, we can use as a starting point log2FC of +2/-2 and a adjusted p value of 0.05.

```
top.inds <- (abs(res$log2FoldChange) >2) & (abs(res$padj) < 0.05)
top.inds[is.na(top.inds)] <- FALSE
```

lets save our top genes to file

```
top.genes <- res[top.inds, ]
write.csv(top.genes, file = "top_genes.csv", row.names = FALSE)
```

```
library(gage)
```

```
library(gageData)
library(pathview)
```

```
#####
Pathview is an open source software package distributed under GNU General
Public License version 3 (GPLv3). Details of GPLv3 is available at
http://www.gnu.org/licenses/gpl-3.0.html. Particullary, users are required to
formally cite the original Pathview paper (not just mention it) in publications
or products. For details, do citation("pathview") within R.
```

The pathview downloads and uses KEGG data. Non-academic uses may require a KEGG license agreement (details at <http://www.kegg.jp/kegg/legal.html>).

```
#####
```

```
data(kegg.sets.hs)
data(sigmet.idx.hs)

# Focus on signaling and metabolic pathways only
kegg.sets.hs = kegg.sets.hs[sigmet.idx.hs]

# Examine the first 3 pathways
head(kegg.sets.hs, 3)
```

```
$`hsa00232 Caffeine metabolism`
[1] "10"    "1544"  "1548"  "1549"  "1553"  "7498"  "9"
```

```
$`hsa00983 Drug metabolism - other enzymes`
[1] "10"    "1066"  "10720" "10941" "151531" "1548"  "1549"  "1551"
[9] "1553"  "1576"  "1577"  "1806"  "1807"  "1890"  "221223" "2990"
[17] "3251"  "3614"  "3615"  "3704"  "51733"  "54490"  "54575"  "54576"
[25] "54577"  "54578"  "54579"  "54600"  "54657"  "54658"  "54659"  "54963"
[33] "574537" "64816"  "7083"  "7084"  "7172"  "7363"  "7364"  "7365"
```

```
[41] "7366" "7367" "7371" "7372" "7378" "7498" "79799" "83549"
[49] "8824" "8833" "9" "978"
```

```
$`hsa00230 Purine metabolism`
```

```
[1] "100" "10201" "10606" "10621" "10622" "10623" "107" "10714"
[9] "108" "10846" "109" "111" "11128" "11164" "112" "113"
[17] "114" "115" "122481" "122622" "124583" "132" "158" "159"
[25] "1633" "171568" "1716" "196883" "203" "204" "205" "221823"
[33] "2272" "22978" "23649" "246721" "25885" "2618" "26289" "270"
[41] "271" "27115" "272" "2766" "2977" "2982" "2983" "2984"
[49] "2986" "2987" "29922" "3000" "30833" "30834" "318" "3251"
[57] "353" "3614" "3615" "3704" "377841" "471" "4830" "4831"
[65] "4832" "4833" "4860" "4881" "4882" "4907" "50484" "50940"
[73] "51082" "51251" "51292" "5136" "5137" "5138" "5139" "5140"
[81] "5141" "5142" "5143" "5144" "5145" "5146" "5147" "5148"
[89] "5149" "5150" "5151" "5152" "5153" "5158" "5167" "5169"
[97] "51728" "5198" "5236" "5313" "5315" "53343" "54107" "5422"
[105] "5424" "5425" "5426" "5427" "5430" "5431" "5432" "5433"
[113] "5434" "5435" "5436" "5437" "5438" "5439" "5440" "5441"
[121] "5471" "548644" "55276" "5557" "5558" "55703" "55811" "55821"
[129] "5631" "5634" "56655" "56953" "56985" "57804" "58497" "6240"
[137] "6241" "64425" "646625" "654364" "661" "7498" "8382" "84172"
[145] "84265" "84284" "84618" "8622" "8654" "87178" "8833" "9060"
[153] "9061" "93034" "953" "9533" "954" "955" "956" "957"
[161] "9583" "9615"
```

the gage function wants a vector of importance as input with gene names as labels kegg speaks entrez

```
foldchanges = res$log2FoldChange
names(foldchanges) = res$entrez_id
head(foldchanges)
```

```
<NA>      148398      26155      339451      84069      84808
0.17925708 0.42645712 -0.69272046 0.72975561 0.04057653 0.54281049
```

run gage with these values

```
keggres = gage(foldchanges, gsets=kegg.sets.hs)
```

```
head(keggres$less)
```

	p.geomean	stat.mean	p.val
hsa04110 Cell cycle	8.995727e-06	-4.378644	8.995727e-06
hsa03030 DNA replication	9.424076e-05	-3.951803	9.424076e-05
hsa03013 RNA transport	1.246882e-03	-3.059466	1.246882e-03
hsa03440 Homologous recombination	3.066756e-03	-2.852899	3.066756e-03
hsa04114 Oocyte meiosis	3.784520e-03	-2.698128	3.784520e-03
hsa00010 Glycolysis / Gluconeogenesis	8.961413e-03	-2.405398	8.961413e-03

	q.val	set.size	exp1
hsa04110 Cell cycle	0.001448312	121	8.995727e-06
hsa03030 DNA replication	0.007586381	36	9.424076e-05
hsa03013 RNA transport	0.066915974	144	1.246882e-03
hsa03440 Homologous recombination	0.121861535	28	3.066756e-03
hsa04114 Oocyte meiosis	0.121861535	102	3.784520e-03
hsa00010 Glycolysis / Gluconeogenesis	0.212222694	53	8.961413e-03

```
pathview(foldchanges, pathway.id="hsa04110")
```

'select()' returned 1:1 mapping between keys and columns

Info: Working in directory /Users/xiaowen/Desktop/lab nov13

Info: Writing image file hsa04110.pathview.png

```
library(gage)
library(gageData)

data(go.sets.hs)
data(go.subs.hs)

gobpsets=go.sets.hs[go.subs.hs$BP]
gores <- gage(foldchanges,gsets=gobpsets)
head(gores$less)
```

	p.geomean	stat.mean	p.val
G0:0048285 organelle fission	1.536227e-15	-8.063910	1.536227e-15
G0:0000280 nuclear division	4.286961e-15	-7.939217	4.286961e-15
G0:0007067 mitosis	4.286961e-15	-7.939217	4.286961e-15

G0:0000087	M phase of mitotic cell cycle	1.169934e-14	-7.797496	1.169934e-14
G0:0007059	chromosome segregation	2.028624e-11	-6.878340	2.028624e-11
G0:0000236	mitotic prometaphase	1.729553e-10	-6.695966	1.729553e-10
		q.val	set.size	exp1
G0:0048285	organelle fission	5.841698e-12	376	1.536227e-15
G0:0000280	nuclear division	5.841698e-12	352	4.286961e-15
G0:0007067	mitosis	5.841698e-12	352	4.286961e-15
G0:0000087	M phase of mitotic cell cycle	1.195672e-11	362	1.169934e-14
G0:0007059	chromosome segregation	1.658603e-08	142	2.028624e-11
G0:0000236	mitotic prometaphase	1.178402e-07	84	1.729553e-10

to run reactome

```
sig_genes <- res[res$padj <= 0.05 & !is.na(res$padj), "symbol"]
print(paste("Total number of significant genes:", length(sig_genes)))
```

```
[1] "Total number of significant genes: 8147"
```

sig_genes

ENSG00000187634	ENSG00000188976	ENSG00000187961	ENSG00000188290	ENSG00000187608
"SAMD11"	"NOC2L"	"KLHL17"	"HES4"	"ISG15"
ENSG00000188157	ENSG00000078808	ENSG00000176022	ENSG00000160087	ENSG00000162572
"AGRN"	"SDF4"	"B3GALT6"	"UBE2J2"	"SCNN1D"
ENSG00000131584	ENSG00000127054	ENSG00000107404	ENSG00000162576	ENSG00000221978
"ACAP3"	"INTS11"	"DVL1"	"MXRA8"	"CCNL2"
ENSG00000160072	ENSG00000197785	ENSG00000228594	ENSG00000197530	ENSG00000189339
"ATAD3B"	"ATAD3A"	"FNDC10"	"MIB2"	"SLC35E2B"
ENSG00000215790	ENSG00000162585	ENSG00000157933	ENSG00000157873	ENSG00000157870
NA	"FAAP20"	"SKI"	"TNFRSF14"	"PRXL2B"
ENSG00000158109	ENSG00000130764	ENSG00000116198	ENSG00000131697	ENSG00000116237
"TPRG1L"	"LRRC47"	"CEP104"	"NPHP4"	"ICMT"
ENSG00000097021	ENSG00000069812	ENSG00000215788	ENSG00000171680	ENSG00000162408
"ACOT7"	"HES2"	"TNFRSF25"	"PLEKHG5"	"NOL9"
ENSG00000162413	ENSG00000041988	ENSG00000007923	ENSG00000049245	ENSG00000116288
"KLHL21"	"THAP3"	"DNAJC11"	"VAMP3"	"PARK7"
ENSG00000116285	ENSG00000142599	ENSG00000074800	ENSG00000180758	ENSG00000049239
"ERRFI1"	"RERE"	"ENO1"	"GPR157"	"H6PD"
ENSG00000171621	ENSG00000171608	ENSG00000171603	ENSG00000178585	ENSG00000162441
"SPSB1"	"PIK3CD"	"CLSTN1"	"CTNNBIP1"	"LZIC"
ENSG00000173614	ENSG00000130939	ENSG00000054523	ENSG00000142657	ENSG00000160049

"NMNAT1"	"UBE4B"	"KIF1B"	"PGD"	"DFFA"
ENSG00000120948	ENSG00000116649	ENSG00000171824	ENSG00000120942	ENSG00000116661
"TARDBP"	"SRM"	"EXOSC10"	"UBIAD1"	"FBXO2"
ENSG00000116670	ENSG00000162490	ENSG00000177674	ENSG00000177000	ENSG00000011021
"MAD2L2"	"DRAXIN"	"AGTRAP"	"MTHFR"	"CLCN6"
ENSG00000116688	ENSG00000116691	ENSG00000028137	ENSG00000048707	ENSG00000162496
"MFN2"	"MIIP"	"TNFRSF1B"	"VPS13D"	"DHRS3"
ENSG00000162493	ENSG00000116731	ENSG00000189337	ENSG00000171729	ENSG00000142634
"PDPN"	"PRDM2"	"KAZN"	"TMEM51"	"EFHD2"
ENSG00000116138	ENSG00000197312	ENSG00000116786	ENSG00000162458	ENSG00000173641
"DNAJC16"	"DDI2"	"PLEKHM2"	"FBLIM1"	"HSPB7"
ENSG00000142627	ENSG00000132881	ENSG00000055070	ENSG00000058453	ENSG00000117122
"EPA2"	"CPANE2"	"SZRD1"	"CROCC"	"MFAP2"
ENSG00000159363	ENSG00000117118	ENSG00000179051	ENSG00000074964	ENSG00000159423
"ATP13A2"	"SDHB"	"RCC2"	"ARHGEF10L"	"ALDH4A1"
ENSG00000127463	ENSG00000053372	ENSG00000040487	ENSG00000077549	ENSG00000158747
"EMC1"	"MRT04"	"SLC66A1"	"CAPZB"	"NBL1"
ENSG00000162542	ENSG00000162545	ENSG00000158825	ENSG00000158828	ENSG00000244038
"TMC04"	"CAMK2N1"	"CDA"	"PINK1"	"DDOST"
ENSG00000117245	ENSG00000189410	ENSG00000127483	ENSG00000075151	ENSG00000117298
"KIF17"	"SH2D5"	"HP1BP3"	"EIF4G3"	"ECE1"
ENSG00000162551	ENSG00000076864	ENSG00000142798	ENSG00000184677	ENSG00000004487
"ALPL"	"RAP1GAP"	"HSPG2"	"ZBTB40"	"KDM1A"
ENSG00000169641	ENSG00000125944	ENSG00000125945	ENSG00000204219	ENSG00000007968
"LUZP1"	"HNRNPR"	"ZNF436"	"TCEA3"	"E2F2"
ENSG00000117318	ENSG00000142676	ENSG00000011007	ENSG00000057757	ENSG00000011009
"ID3"	"RPL11"	"ELOA"	"PITHD1"	"LYPLA2"
ENSG00000117308	ENSG00000117305	ENSG00000179163	ENSG00000189266	ENSG00000188529
"GALE"	"HMGCL"	"FUCA1"	"PNRC2"	"SRSF10"
ENSG00000001460	ENSG00000001461	ENSG00000117602	ENSG00000133226	ENSG00000169504
"STPG1"	"NIPAL3"	"RCAN3"	"SRRM1"	"CLIC4"
ENSG00000020633	ENSG00000117614	ENSG00000117616	ENSG00000183726	ENSG00000204178
"RUNX3"	"SYF2"	"RSRP1"	"TMEM50A"	"MACO1"
ENSG00000117643	ENSG00000162430	ENSG00000127423	ENSG00000182749	ENSG00000117632
"MAN1C1"	"SELENON"	"AUNIP"	"PAQR7"	"STMN1"
ENSG00000158006	ENSG00000158008	ENSG00000130695	ENSG00000142669	ENSG00000117682
"PAFAH2"	"EXTL1"	"CEP85"	"SH3BGRL3"	"DHDDS"
ENSG00000198830	ENSG00000117676	ENSG00000117713	ENSG00000060642	ENSG00000204160
"HMG2"	"RPS6KA1"	"ARID1A"	"PIGV"	"ZDHC18"
ENSG00000198746	ENSG00000090273	ENSG00000158246	ENSG00000142784	ENSG00000186501
"GPATCH3"	"NUDC"	"TENT5B"	"WDT1"	"TMEM222"
ENSG00000142733	ENSG00000181773	ENSG00000158195	ENSG00000126705	ENSG00000117751
"MAP3K6"	"GPR3"	"WASF2"	"AHDC1"	"PPP1R8"

ENSG00000130775	ENSG00000117748	ENSG00000158156	ENSG00000158161	ENSG00000126698
"THEMIS2"	"RPA2"	"XKR8"	"EYA3"	"DNAJC8"
ENSG00000130772	ENSG00000204138	ENSG00000120656	ENSG00000162419	ENSG00000198492
"MED18"	"PHACTR4"	"TAF12"	"GMEB1"	"YTHDF2"
ENSG00000159023	ENSG00000253304	ENSG00000116350	ENSG00000060656	ENSG00000162512
"EPB41"	"TMEM200B"	"SRSF4"	"PTPRU"	"SDC3"
ENSG00000134644	ENSG00000060688	ENSG00000121766	ENSG00000168528	ENSG00000162517
"PUM1"	"SNRNP40"	"ZCCHC17"	"SERINC2"	"PEF1"
ENSG00000084636	ENSG00000134668	ENSG00000121774	ENSG00000025800	ENSG00000084652
"COL16A1"	"SPOCD1"	"KHDRBS1"	"KPNA6"	"TXLNA"
ENSG00000084623	ENSG00000116478	ENSG00000175130	ENSG00000225828	ENSG00000160058
"EIF3I"	"HDAC1"	"MARCKSL1"	"FAM229A"	"BSDC1"
ENSG00000176261	ENSG00000162521	ENSG00000162520	ENSG00000162522	ENSG00000134684
"ZBTB80S"	"RBBP4"	"SYNC"	"NHSL3"	"YARS1"
ENSG00000116497	ENSG00000121900	ENSG00000116514	ENSG00000004455	ENSG00000134686
"S100PBP"	"TMEM54"	"RNF19B"	"AK2"	"PHC2"
ENSG00000163866	ENSG00000116560	ENSG00000146463	ENSG00000142687	ENSG00000020129
"SMIM12"	"SFPQ"	"ZMYM4"	"KIAA0319L"	"NCDN"
ENSG00000142686	ENSG00000092853	ENSG00000134698	ENSG00000171812	ENSG00000214193
"C1orf216"	"CLSPN"	"AGO4"	"COL8A2"	"SH3D21"
ENSG00000142694	ENSG00000196182	ENSG00000116885	ENSG00000163874	ENSG00000163875
"EVA1B"	"STK40"	"OSCP1"	"ZC3H12A"	"MEAF6"
ENSG00000163877	ENSG00000134697	ENSG00000134690	ENSG00000196449	ENSG00000197982
"SNIP1"	"GNL2"	"CDCA8"	"YRDC"	"C1orf122"
ENSG00000188786	ENSG00000204084	ENSG00000183431	ENSG00000183386	ENSG00000116954
"MTF1"	"INPP5B"	"SF3A3"	"FHL3"	"RRAGC"
ENSG00000214114	ENSG00000158315	ENSG00000174574	ENSG00000168653	ENSG00000090621
"MYCBP"	"RHBDL2"	"AKIRIN1"	"NDUFS5"	"PABPC4"
ENSG00000163909	ENSG00000084072	ENSG00000043514	ENSG00000168389	ENSG00000131236
"HEYL"	"PIIE"	"TRIT1"	"MFSD2A"	"CAP1"
ENSG00000131238	ENSG00000187801	ENSG00000187815	ENSG00000179862	ENSG00000171793
"PPT1"	"ZFP69B"	"ZFP69"	"CITED4"	"CTPS1"
ENSG00000010803	ENSG00000127124	ENSG00000127125	ENSG00000171960	ENSG00000065978
"SCMH1"	"HIVEP3"	"PPCS"	"PPIH"	"YBX1"
ENSG00000117385	ENSG00000177868	ENSG00000117394	ENSG00000117395	ENSG00000066056
"P3H1"	"SVBP"	"SLC2A1"	"EBNA1BP2"	"TIE1"
ENSG00000117399	ENSG00000066322	ENSG00000159479	ENSG00000142949	ENSG00000126091
"CDC20"	"ELOVL1"	"MED8"	"PTPRF"	"ST3GAL3"
ENSG00000132768	ENSG00000117410	ENSG00000117411	ENSG00000196517	ENSG00000187147
"DPH2"	"ATP6V0B"	"B4GALT2"	"SLC6A9"	"RNF220"
ENSG00000142945	ENSG00000142937	ENSG00000173846	ENSG00000188396	ENSG00000222009
"KIF2C"	"RPS8"	"PLK3"	"DYNLT4"	"BTBD19"
ENSG00000117425	ENSG00000126107	ENSG00000126088	ENSG00000162415	ENSG00000070759

"PTCH2"	"HECTD3"	"UROD"	"ZSWIM5"	"TESK2"
ENSG00000132763	ENSG00000117450	ENSG00000132780	ENSG00000159592	ENSG00000159596
"MMACHC"	"PRDX1"	"NASP"	"GPBP1L1"	"TMEM69"
ENSG00000197429	ENSG00000086015	ENSG00000117461	ENSG00000085998	ENSG00000085999
"IPP"	"MAST2"	"PIK3R3"	"POMGNT1"	"RAD54L"
ENSG00000117481	ENSG00000123472	ENSG00000159658	ENSG00000123473	ENSG00000132122
"NSUN4"	"ATPAF1"	"EFCAB14"	"STIL"	"SPATA6"
ENSG00000185104	ENSG00000123080	ENSG00000123091	ENSG00000085832	ENSG00000117859
"FAF1"	"CDKN2C"	"RNF11"	"EPS15"	"OSBPL9"
ENSG00000169213	ENSG00000117862	ENSG00000198841	ENSG00000157077	ENSG00000154222
"RAB3B"	"TXNDC12"	"KTI12"	"ZFYVE9"	"CC2D1B"
ENSG00000085840	ENSG00000162377	ENSG00000203995	ENSG00000116171	ENSG00000174348
"ORC1"	"COA7"	"ZYG11A"	"SCP2"	"PODN"
ENSG00000157184	ENSG00000162384	ENSG00000162385	ENSG00000157193	ENSG00000058804
"CPT2"	"CZIB"	"MAGOH"	"LRP8"	"NDC1"
ENSG00000058799	ENSG00000116212	ENSG00000116209	ENSG00000215883	ENSG00000116221
"YIPF1"	"LRRC42"	"TMEM59"	"CYB5RL"	"MRPL37"
ENSG00000162390	ENSG00000243725	ENSG00000162396	ENSG00000116133	ENSG00000162402
"ACOT11"	"TTC4"	"PARS2"	"DHCR24"	"USP24"
ENSG00000162407	ENSG00000162409	ENSG00000173406	ENSG00000162601	ENSG00000177606
"PLPP3"	"PRKAA2"	"DAB1"	"MYSM1"	"JUN"
ENSG00000162599	ENSG00000162604	ENSG00000132849	ENSG00000162607	ENSG00000116641
"NFIA"	"TM2D1"	"PATJ"	"USP1"	"DOCK7"
ENSG00000088035	ENSG00000142856	ENSG00000079739	ENSG00000185483	ENSG00000162437
"ALG6"	"ITGB3BP"	"PGM1"	"ROR1"	"RAVER2"
ENSG00000162434	ENSG00000162433	ENSG00000213625	ENSG00000184588	ENSG00000118473
"JAK1"	"AK4"	"LEPROT"	"PDE4B"	"SGIP1"
ENSG00000152763	ENSG00000198160	ENSG00000116704	ENSG00000142864	ENSG00000116717
"DNAI4"	"MIER1"	"SLC35D1"	"SERBP1"	"GADD45A"
ENSG00000172380	ENSG00000162595	ENSG00000116729	ENSG00000024526	ENSG00000116754
"GNG12"	"DIRAS3"	"WLS"	"DEPDC1"	"SRSF11"
ENSG00000132485	ENSG00000172260	ENSG00000254685	ENSG00000116791	ENSG00000162623
"ZRANB2"	"NEGR1"	"FPGT"	"CRYZ"	"TYW3"
ENSG00000117054	ENSG00000117069	ENSG00000142892	ENSG00000154027	ENSG00000077254
"ACADM"	"ST6GALNAC5"	"PIGK"	"AK5"	"USP33"
ENSG00000180488	ENSG00000162614	ENSG00000162613	ENSG00000162616	ENSG00000137960
"MIGA1"	"NEXN"	"FUBP1"	"DNAJB4"	"GIPC2"
ENSG00000122420	ENSG00000137959	ENSG00000162618	ENSG00000117114	ENSG00000137941
"PTGFR"	"IFI44L"	"ADGRL4"	"ADGRL2"	"TTLL7"
ENSG00000142875	ENSG00000117133	ENSG00000174021	ENSG00000117151	ENSG00000117155
"PRKACB"	"RPF1"	"GNG5"	"CTBS"	"SSX2IP"
ENSG00000171517	ENSG00000162643	ENSG00000097096	ENSG00000162642	ENSG00000142867
"LPAR3"	"DNAI3"	"SYDE2"	"C1orf52"	"BCL10"

ENSG00000153904	ENSG00000142871	ENSG00000171502	ENSG00000122417	ENSG00000137975
"DDAH1"	"CCN1"	"COL24A1"	"ODF2L"	"CLCA2"
ENSG00000097033	ENSG00000183291	ENSG00000143013	ENSG00000065243	ENSG00000137947
"SH3GLB1"	"SELENOF"	"LMO4"	"PKN2"	"GTF2B"
ENSG00000137944	ENSG00000213516	ENSG00000117228	ENSG00000162645	ENSG00000171488
"KYAT3"	"RBMXL1"	"GBP1"	"GBP2"	"LRRRC8C"
ENSG00000171492	ENSG00000122482	ENSG00000097046	ENSG00000069702	ENSG00000172031
"LRRRC8D"	"ZNF644"	"CDC7"	"TGFB3"	"EPHX4"
ENSG00000069712	ENSG00000067208	ENSG00000122406	ENSG00000143033	ENSG00000117500
NA	"EVI5"	"RPL5"	"MTF2"	"TMED5"
ENSG00000122483	ENSG00000117505	ENSG00000137936	ENSG00000067334	ENSG00000023909
"CCDC18"	"DR1"	"BCAR3"	"DNTTIP2"	"GCLM"
ENSG00000137962	ENSG00000117525	ENSG00000117519	ENSG00000172339	ENSG00000117569
"ARHGAP29"	"F3"	"CNN3"	"ALG14"	"PTBP2"
ENSG00000188641	ENSG00000162627	ENSG00000117598	ENSG00000117600	ENSG00000156869
"DPYD"	"SNX7"	"PLPPR5"	"PLPPR4"	"FRRS1"
ENSG00000117620	ENSG00000156875	ENSG00000156876	ENSG00000122435	ENSG00000137992
"SLC35A3"	"MFSD14A"	"SASS6"	"TRMT13"	"DBT"
ENSG00000079335	ENSG00000162692	ENSG00000162694	ENSG00000170989	ENSG00000162631
"CDC14A"	"VCAM1"	"EXTL2"	"S1PR1"	"NTNG1"
ENSG00000085491	ENSG00000162636	ENSG00000121957	ENSG00000121940	ENSG00000085433
"SLC25A24"	"EEIG2"	"GPSM2"	"CLCC1"	"WDR47"
ENSG00000197780	ENSG00000215717	ENSG00000116299	ENSG00000031698	ENSG00000134222
"TAF13"	"TMEM167B"	"ELAPOR1"	"SARS1"	"PSRC1"
ENSG00000134243	ENSG00000143028	ENSG00000174151	ENSG00000181754	ENSG00000065135
"SORT1"	"SYPL2"	"CYB561D1"	"AMIGO1"	"GNAI3"
ENSG00000213366	ENSG00000184371	ENSG00000134248	ENSG00000177272	ENSG00000156171
"GSTM2"	"CSF1"	"LAMTOR5"	"KCNA3"	"DRAM2"
ENSG00000162777	ENSG00000173947	ENSG00000085465	ENSG00000116455	ENSG00000197852
"DENND2D"	"CIMAP3"	"OVGP1"	"WDR77"	"INKA2"
ENSG00000171385	ENSG00000143079	ENSG00000116489	ENSG00000155363	ENSG00000155366
"KCND3"	"CTTNBP2NL"	"CAPZA1"	"MOV10"	"RHOC"
ENSG00000155367	ENSG00000184599	ENSG00000155380	ENSG00000081026	ENSG00000116793
"PPM1J"	"TAFA3"	"SLC16A1"	"MAGI3"	"PHTF1"
ENSG00000081019	ENSG00000134262	ENSG00000118655	ENSG00000163349	ENSG00000197323
"RSBN1"	"AP4B1"	"DCLRE1B"	"HIPK1"	"TRIM33"
ENSG00000116752	ENSG00000175984	ENSG00000052723	ENSG00000134259	ENSG00000173218
"BCAS2"	"DENND2C"	"SIKE1"	"NGF"	"VANGL1"
ENSG00000163399	ENSG00000116815	ENSG00000134247	ENSG00000116830	ENSG00000134253
"ATP1A1"	"CD58"	"PTGFRN"	"TTF2"	"TRIM45"
ENSG00000198162	ENSG00000183508	ENSG00000196505	ENSG00000143067	ENSG00000092621
"MAN1A2"	"TENT5C"	"GDAP2"	"ZNF697"	"PHGDH"
ENSG00000134250	ENSG00000273136	ENSG00000188610	ENSG00000171943	ENSG00000263513

"NOTCH2"	"NBPF26"	"FAM72B"	"SRGAP2C"	"FAM72C"
ENSG00000266338	ENSG00000215784	ENSG00000174827	ENSG00000186141	ENSG00000131788
"NBPF15"	"FAM72D"	"PDZK1"	"POLR3C"	"PIAS3"
ENSG00000198483	ENSG00000143127	ENSG00000131779	ENSG00000265241	ENSG00000271601
"ANKRD35"	"ITGA10"	"PEX11B"	"RBM8A"	"LIX1L"
ENSG00000272031	ENSG00000265972	ENSG00000264343	ENSG00000268043	ENSG00000131791
"ANKRD34A"	"TXNIP"	"NOTCH2NLA"	"NBPF12"	"PRKAB2"
ENSG00000131778	ENSG00000270629	ENSG00000178104	ENSG00000150337	ENSG00000184678
"CHD1L"	"NBPF14"	"PDE4DIP"	"FCGR1A"	"H2BC21"
ENSG00000159164	ENSG00000023902	ENSG00000143401	ENSG00000117362	ENSG00000118292
"SV2A"	"PLEKH01"	"ANP32E"	"APH1A"	"C1orf54"
ENSG00000266472	ENSG00000143369	ENSG00000143384	ENSG00000163131	ENSG00000143387
"MRPS21"	"ECM1"	"MCL1"	"CTSS"	"CTSK"
ENSG00000143409	ENSG00000143363	ENSG00000197622	ENSG00000213190	ENSG00000143434
"MINDY1"	"PRUNE1"	"CDC42SE1"	"MLLT11"	"SEMA6C"
ENSG00000163155	ENSG00000159352	ENSG00000143393	ENSG00000143390	ENSG00000143416
"LYSMD1"	"PSMD4"	"PI4KB"	"RFX5"	"SELENBP1"
ENSG00000143367	ENSG00000143376	ENSG00000143436	ENSG00000197747	ENSG00000163191
"TUFT1"	"SNX27"	"MRPL9"	"S100A10"	"S100A11"
ENSG00000197956	ENSG00000196154	ENSG00000196754	ENSG00000188643	ENSG00000189171
"S100A6"	"S100A4"	"S100A2"	"S100A16"	"S100A13"
ENSG00000143621	ENSG00000143624	ENSG00000143554	ENSG00000143614	ENSG00000160741
"ILF2"	"INTS3"	"SLC27A3"	"GATAD2B"	"CRTC2"
ENSG00000143570	ENSG00000143545	ENSG00000143549	ENSG00000143612	ENSG00000143569
"SLC39A1"	"RAB13"	"TPM3"	"C1orf43"	"UBAP2L"
ENSG00000143575	ENSG00000143515	ENSG00000160714	ENSG00000160710	ENSG00000163344
"HAX1"	"ATP8B2"	"UBE2Q1"	"ADAR"	"PMVK"
ENSG00000163346	ENSG00000163348	ENSG00000160691	ENSG00000173207	ENSG00000160688
"PBXIP1"	"PYGO2"	"SHC1"	"CKS1B"	"FLAD1"
ENSG00000160685	ENSG00000243364	ENSG00000169241	ENSG00000177628	ENSG00000160767
"ZBTB7B"	"EFNA4"	"SLC50A1"	"GBA1"	"ENTREP3"
ENSG00000116521	ENSG00000176444	ENSG00000143630	ENSG00000160752	ENSG00000160753
"SCAMP3"	"CLK2"	"HCN3"	"FDPS"	"RUSC1"
ENSG00000125459	ENSG00000163374	ENSG00000132676	ENSG00000143622	ENSG00000132680
"MST01"	"YY1AP1"	"DAP3"	"RIT1"	"KHDC4"
ENSG00000116584	ENSG00000116586	ENSG00000254726	ENSG00000160789	ENSG00000198952
"ARHGEF2"	"LAMTOR2"	"MEX3A"	"LMNA"	"SMG5"
ENSG00000198715	ENSG00000163468	ENSG00000116604	ENSG00000183856	ENSG00000160818
"GLMP"	"CCT3"	"MEF2D"	"IQGAP3"	"GPATCH4"
ENSG00000132688	ENSG00000143320	ENSG00000143319	ENSG00000143303	ENSG00000143314
"NES"	"CRABP2"	"ISG20L2"	"METTL25B"	"MRPL24"
ENSG00000187800	ENSG00000132694	ENSG00000117036	ENSG00000183853	ENSG00000158473
"PEAR1"	"ARHGEF11"	"ETV3"	"KIRREL1"	"CD1D"

ENSG00000163565	ENSG00000213085	ENSG00000158710	ENSG00000143315	ENSG00000162729
"IFI16"	"CFAP45"	"TAGLN2"	"PIGM"	"IGSF8"
ENSG00000162734	ENSG00000132716	ENSG00000122218	ENSG00000162736	ENSG00000162738
"PEA15"	"DCAF8"	"COPA"	"NCSTN"	"VANGL2"
ENSG00000158773	ENSG00000158796	ENSG00000143222	ENSG00000143258	ENSG00000158850
"USF1"	"DEDD"	"UFC1"	"USP21"	"B4GALT3"
ENSG00000158882	ENSG00000158887	ENSG00000143252	ENSG00000081721	ENSG00000118217
"TOMM40L"	"MPZ"	"SDHC"	"DUSP12"	"ATF6"
ENSG00000198929	ENSG00000239887	ENSG00000152332	ENSG00000117143	ENSG00000162733
"NOS1AP"	"C1orf226"	"UHMK1"	"UAP1"	"DDR2"
ENSG00000132196	ENSG00000117152	ENSG00000143248	ENSG00000143228	ENSG00000185630
"HSD17B7"	"RGS4"	"RGS5"	"NUF2"	"PBX1"
ENSG00000143149	ENSG00000143183	ENSG00000143157	ENSG00000152382	ENSG00000143190
"ALDH9A1"	"TMC01"	"POGK"	"TADA1"	"POU2F1"
ENSG00000143162	ENSG00000197965	ENSG00000143164	ENSG00000143147	ENSG00000143155
"CREG1"	"MPZL1"	"DCAF6"	"GPR161"	"TIPRL"
ENSG00000213064	ENSG00000143153	ENSG00000117475	ENSG00000117479	ENSG00000000460
"SFT2D2"	"ATP1B1"	"BLZF1"	"SLC19A2"	"FIRRM"
ENSG00000000457	ENSG00000075945	ENSG00000116132	ENSG00000117523	ENSG00000117533
"SCYL3"	"KIFAP3"	"PRRX1"	"PRRC2C"	"VAMP4"
ENSG00000010165	ENSG00000197959	ENSG00000094975	ENSG00000120337	ENSG00000117586
"METTL13"	"DNM3"	"SUC0"	"TNFSF18"	"TNFSF4"
ENSG00000120334	ENSG00000117593	ENSG00000185278	ENSG00000135870	ENSG00000152061
"CENPL"	"DARS2"	"ZBTB37"	"RC3H1"	"RABGAP1L"
ENSG00000116161	ENSG00000120333	ENSG00000143207	ENSG00000116183	ENSG00000075391
"CACYPB"	"MRPS14"	"COP1"	"PAPPA2"	"RASAL2"
ENSG00000116191	ENSG00000116199	ENSG00000186283	ENSG00000169905	ENSG00000135837
"RALGPS2"	"FAM20B"	"TOR3A"	"TOR1AIP2"	"CEP350"
ENSG00000135823	ENSG00000153029	ENSG00000162783	ENSG00000143333	ENSG00000135829
"STX6"	"MR1"	"IER5"	"RGS16"	"DHX9"
ENSG00000135862	ENSG00000116698	ENSG00000116701	ENSG00000162704	ENSG00000143344
"LAMC1"	"SMG7"	"NCF2"	"ARPC5"	"RGL1"
ENSG00000198756	ENSG00000198860	ENSG00000116667	ENSG00000135842	ENSG00000116668
"COLGALT2"	"TSEN15"	"C1orf21"	"NIBAN1"	"SWT1"
ENSG00000116679	ENSG00000143341	ENSG00000116690	ENSG00000047410	ENSG00000157181
"IVNS1ABP"	"HMCN1"	"PRG4"	"TPR"	"ODR4"
ENSG00000073756	ENSG00000116711	ENSG00000162670	ENSG00000150681	ENSG00000116741
"PTGS2"	"PLA2G4A"	"BRINP3"	"RGS18"	"RGS2"
ENSG00000116750	ENSG00000134371	ENSG00000162630	ENSG00000162687	ENSG00000066279
"UCHL5"	"CDC73"	"B3GALT2"	"KCNT2"	"ASPM"
ENSG00000177888	ENSG00000213047	ENSG00000151414	ENSG00000116833	ENSG00000162702
"ZBTB41"	"DENND1B"	"NEK7"	"NR5A2"	"ZNF281"
ENSG00000118193	ENSG00000118197	ENSG00000118200	ENSG00000116852	ENSG00000174307

"KIF14"	"DDX59"	"CAMSAP2"	"KIF21B"	"PHLDA3"
ENSG00000159176	ENSG00000134369	ENSG00000163431	ENSG00000134375	ENSG00000143862
"CSRP1"	"NAV1"	"LMD1"	"TIMM17A"	"ARL8A"
ENSG00000077152	ENSG00000077157	ENSG00000117139	ENSG00000183155	ENSG00000117153
"UBE2T"	"PPP1R12B"	"KDM5B"	"RAB1F"	"KLHL12"
ENSG00000159346	ENSG00000159348	ENSG00000143847	ENSG00000163485	ENSG00000133048
"ADIPOR1"	"CYB5R1"	"PPFIA4"	"ADORA1"	"CHI3L1"
ENSG00000159388	ENSG00000122176	ENSG00000058668	ENSG00000058673	ENSG000000257315
"BTG2"	"FMD"	"ATP2B4"	"ZC3H11A"	"ZBED6"
ENSG00000182004	ENSG00000143845	ENSG00000170498	ENSG00000143850	ENSG00000158615
"SNRPE"	"ETNK2"	"KISS1"	"PLEKHA6"	"PPP1R15B"
ENSG00000133056	ENSG00000163531	ENSG00000133069	ENSG00000163545	ENSG00000158715
"PIK3C2B"	"NFASC"	"TMCC2"	"NUAK2"	"SLC45A3"
ENSG00000069275	ENSG00000117280	ENSG00000276600	ENSG00000196550	ENSG00000266028
"NUCKS1"	"RAB29"	"RAB7B"	"FAM72A"	"SRGAP2"
ENSG00000263528	ENSG00000266094	ENSG00000143486	ENSG00000143479	ENSG00000162889
"IKBKE"	"RASSF5"	"EIF2D"	"DYRK3"	"MAPKAPK2"
ENSG00000162892	ENSG00000162894	ENSG00000123836	ENSG00000196352	ENSG00000117335
"IL24"	"FCMR"	"PFKFB2"	"CD55"	"CD46"
ENSG00000008118	ENSG00000196878	ENSG00000123689	ENSG00000117594	ENSG00000162757
"CAMK1G"	"LAMB3"	"GOS2"	"HSD11B1"	"C1orf74"
ENSG00000117597	ENSG00000143469	ENSG00000054392	ENSG00000143473	ENSG00000082512
"UTP25"	"SYT14"	"HHAT"	"KCNH1"	"TRAF5"
ENSG00000170385	ENSG00000117650	ENSG00000123684	ENSG00000143493	ENSG00000143476
"SLC30A1"	"NEK2"	"LPGAT1"	"INTS7"	"DTL"
ENSG00000065600	ENSG00000162772	ENSG00000123685	ENSG00000117697	ENSG00000203705
"PACC1"	"ATF3"	"BATF3"	"NSL1"	"TATDN3"
ENSG00000143494	ENSG00000174606	ENSG00000136643	ENSG00000117707	ENSG00000143499
"VASH2"	"ANGEL2"	"RPS6KC1"	"PROX1"	"SMYD2"
ENSG00000152104	ENSG00000117724	ENSG00000082482	ENSG00000136636	ENSG00000196482
"PTPN14"	"CENPF"	"KCNK2"	"KCTD3"	"ESRRG"
ENSG00000067533	ENSG00000092969	ENSG00000136628	ENSG00000118873	ENSG00000117791
"RRP15"	"TGFB2"	"EPRS1"	"RAB3GAP2"	"MTARC2"
ENSG00000143507	ENSG00000154305	ENSG00000186063	ENSG00000143502	ENSG00000162909
"DUSP10"	"MIA3"	"AIDA"	"SUSD4"	"CAPN2"
ENSG00000143756	ENSG00000143753	ENSG00000143748	ENSG00000162923	ENSG00000143786
"FBX028"	"DEGS1"	"NVL"	"WDR26"	"CNIH3"
ENSG00000143815	ENSG00000154380	ENSG00000143819	ENSG00000143811	ENSG00000143751
"LBR"	"ENAH"	"EPHX1"	"PYCR2"	"SDE2"
ENSG00000163041	ENSG00000183814	ENSG00000143799	ENSG00000143776	ENSG00000181450
"H3-3A"	"LIN9"	"PARP1"	"CDC42BPA"	"ZNF678"
ENSG00000143740	ENSG00000143761	ENSG00000181873	ENSG00000162913	ENSG00000154358
"SNAP47"	"ARF1"	"IBA57"	"OBSCN-AS1"	"OBSCN"

ENSG00000154370	ENSG00000181218	ENSG00000168159	ENSG00000135776	ENSG00000135801
"TRIM11"	"H2AC25"	"RNF187"	"ABCB10"	"TAF5L"
ENSG00000143641	ENSG00000135744	ENSG00000119280	ENSG00000143643	ENSG00000182118
"GALNT2"	"AGT"	"C1orf198"	"TTC13"	"FAM89A"
ENSG00000116903	ENSG00000010072	ENSG00000116918	ENSG00000116991	ENSG00000135749
"EXOC8"	"SPRTN"	"TSNAX"	"SIPA1L2"	"PCNX2"
ENSG00000183780	ENSG00000059588	ENSG00000173726	ENSG00000116957	ENSG00000143669
"SLC35F3"	"TARBP1"	"TOMM20"	NA	"LYST"
ENSG00000116962	ENSG00000077585	ENSG00000086619	ENSG00000116977	ENSG00000119285
"NID1"	"GPR137B"	"ER01B"	"LGALS8"	"HEATR1"
ENSG00000155816	ENSG00000091483	ENSG00000203668	ENSG00000174371	ENSG00000143702
"FMN2"	"FH"	"CHML"	"EXO1"	"CEP170"
ENSG00000054282	ENSG00000117020	ENSG00000179456	ENSG00000035687	ENSG00000121644
"SDCCAG8"	"AKT3"	"ZBTB18"	"ADSS2"	"DESI2"
ENSG00000185420	ENSG00000162851	ENSG00000162852	ENSG00000143653	ENSG00000197472
"SMYD3"	"TFB2M"	"CNST"	"SCCPDH"	"ZNF695"
ENSG00000188295	ENSG00000196418	ENSG00000162722	ENSG00000175137	ENSG00000185220
"ZNF669"	"ZNF124"	"TRIM58"	"SH3BP5L"	"PGBD2"
ENSG00000143727	ENSG00000151353	ENSG00000130508	ENSG00000182551	ENSG00000171863
"ACP1"	"TMEM18"	"PXDN"	"ADI1"	"RPS7"
ENSG00000176887	ENSG00000115738	ENSG00000134313	ENSG00000143797	ENSG00000151693
"SOX11"	"ID2"	"KIDINS220"	"MBOAT2"	"ASAP2"
ENSG00000119185	ENSG00000134330	ENSG00000134308	ENSG00000172059	ENSG00000171848
"ITGB1BP1"	"IAH1"	"YWHAQ"	"KLF11"	"RRM2"
ENSG00000115756	ENSG00000115758	ENSG00000115761	ENSG00000162975	ENSG00000134318
"HPCAL1"	"ODC1"	"NOL10"	"KCNF1"	"ROCK2"
ENSG00000169016	ENSG00000196208	ENSG00000071575	ENSG00000162981	ENSG00000151779
"E2F6"	"GREB1"	"TRIB2"	"LRATD1"	"NBAS"
ENSG00000079785	ENSG00000197872	ENSG00000143867	ENSG00000118965	ENSG00000068697
"DDX1"	"CYRIA"	"OSR1"	"WDR35"	"LAPTM4A"
ENSG00000115884	ENSG00000055917	ENSG00000143878	ENSG00000118960	ENSG00000119771
"SDC1"	"PUM2"	"RHOB"	"HS1BP3"	"KLHL29"
ENSG00000119778	ENSG00000173960	ENSG00000115128	ENSG00000115129	ENSG00000198399
"ATAD2B"	"UBXN2A"	"SF3B6"	"TP53I3"	"ITSN2"
ENSG00000138092	ENSG00000138031	ENSG00000143970	ENSG00000084731	ENSG00000157833
"CENPO"	"ADCY3"	"ASXL2"	"KIF3C"	"GAREM2"
ENSG00000138029	ENSG00000138018	ENSG00000213699	ENSG00000115163	ENSG00000119777
"HADHB"	"SELENOI"	"SLC35F6"	"CENPA"	"TMEM214"
ENSG00000084693	ENSG00000228474	ENSG00000138080	ENSG00000138073	ENSG00000138074
"AGBL5"	"OST4"	"EMILIN1"	"PREB"	"SLC5A6"
ENSG00000138085	ENSG00000084774	ENSG00000115207	ENSG00000163795	ENSG00000115241
"ATRAID"	"CAD"	"GTF3C2"	"ZNF513"	"PPM1G"
ENSG00000115216	ENSG00000138002	ENSG00000243943	ENSG00000176714	ENSG00000198522

"NRBP1"	"IFT172"	"ZNF512"	"CCDC121"	"GPN1"
ENSG00000119760	ENSG00000158019	ENSG00000075426	ENSG00000213639	ENSG00000163811
"SUPT7L"	"BABAM2"	"FOSL2"	"PPP1CB"	"WDR43"
ENSG00000119801	ENSG00000213626	ENSG00000172954	ENSG00000158125	ENSG00000152683
"YPEL5"	"LBH"	"LCLAT1"	"XDH"	"SLC30A6"
ENSG00000119820	ENSG00000115760	ENSG00000018699	ENSG00000049323	ENSG00000152689
"YIPF4"	"BIRC6"	"TTC27"	"LTBP1"	"RASGRP3"
ENSG00000119812	ENSG00000150938	ENSG00000171055	ENSG00000115808	ENSG00000008869
"FAM98A"	"CRIM1"	"FEZ2"	"STRN"	"HEATR5B"
ENSG00000055332	ENSG00000218739	ENSG00000115825	ENSG00000163171	ENSG00000115841
"EIF2AK2"	"CEBPZOS"	"PRKD3"	"CDC42EP3"	"RMDN2"
ENSG00000138061	ENSG00000119787	ENSG00000115875	ENSG00000163214	ENSG00000115904
"CYP1B1"	"ATL2"	"SRSF7"	"DHX57"	"SOS1"
ENSG00000011566	ENSG00000183023	ENSG00000162878	ENSG00000143924	ENSG00000115944
"MAP4K3"	"SLC8A1"	"PKDCC"	"EML4"	"COX7A2L"
ENSG00000057935	ENSG00000152518	ENSG00000152527	ENSG00000138095	ENSG00000138032
"MTA3"	"ZFP36L2"	"PLEKHH2"	"LRPPRC"	"PPM1B"
ENSG00000138078	ENSG00000143919	ENSG00000068784	ENSG00000171132	ENSG00000116016
"PREPL"	"CAMKMT"	"SRBD1"	"PRKCE"	"EPAS1"
ENSG00000250565	ENSG00000151665	ENSG00000171150	ENSG00000180398	ENSG00000068724
"ATP6V1E2"	"PIGF"	"SOCS5"	"MCFD2"	"TTC7A"
ENSG00000143933	ENSG00000095002	ENSG00000116062	ENSG00000138081	ENSG00000170802
"CALM2"	"MSH2"	"MSH6"	"FBX011"	"FOXN2"
ENSG00000243244	ENSG00000143942	ENSG00000068912	ENSG00000115306	ENSG00000214595
"STON1"	"CHAC2"	"ERLEC1"	"SPTBN1"	"EML6"
ENSG00000115310	ENSG00000143947	ENSG00000115355	ENSG00000163001	ENSG00000275052
"RTN4"	"RPS27A"	"CCDC88A"	"CFAP36"	"PPP4R3B"
ENSG00000115380	ENSG00000055813	ENSG00000028116	ENSG00000115421	ENSG00000162929
"EFEMP1"	"CCDC85A"	"VRK2"	"PAPOLG"	"SANBR"
ENSG00000173209	ENSG00000115464	ENSG00000082898	ENSG00000115484	ENSG00000173163
NA	"USP34"	"XPO1"	"CCT4"	"COMMD1"
ENSG00000170340	ENSG00000186889	ENSG00000014641	ENSG00000169764	ENSG00000143952
"B3GNT2"	"TMEM17"	"MDH1"	"UGP2"	"VPS54"
ENSG00000197329	ENSG00000179833	ENSG00000115902	ENSG0000011523	ENSG00000138069
"PELI1"	"SERTAD2"	"SLC1A4"	"CEP68"	"RAB1A"
ENSG00000138071	ENSG00000198369	ENSG00000115946	ENSG00000221823	ENSG00000119865
"ACTR2"	"SPRED2"	"PN01"	"PPP3R1"	"CNRIP1"
ENSG00000169604	ENSG00000198380	ENSG00000115977	ENSG00000196975	ENSG00000087338
"ANTXR1"	"GFPT1"	"AAK1"	"ANXA4"	"GMCL1"
ENSG00000169564	ENSG00000116001	ENSG00000116005	ENSG00000035141	ENSG00000124357
"PCBP1"	"TIA1"	"PCYOX1"	"FAM136A"	"NAGK"
ENSG00000124374	ENSG00000075292	ENSG00000135636	ENSG00000003137	ENSG00000144040
"PAIP2B"	"ZNF638"	"DYSF"	"CYP26B1"	"SFXN5"

ENSG00000135631	ENSG00000135632	ENSG00000135617	ENSG00000135624	ENSG00000163013
"RAB11FIP5"	"SMYD5"	"PRADC1"	"CCT7"	"FBX041"
ENSG00000124356	ENSG00000163017	ENSG00000187605	ENSG00000163170	ENSG00000114978
"STAMPB"	"ACTG2"	"TET3"	"BOLA3"	"MOB1A"
ENSG00000065911	ENSG00000204843	ENSG00000239779	ENSG00000115289	ENSG00000115307
"MTHFD2"	"DCTN1"	"WBP1"	"PCGF1"	"AUP1"
ENSG00000115325	ENSG00000135622	ENSG00000159399	ENSG00000115353	ENSG00000115363
"DOK1"	"SEMA4F"	"HK2"	"TACR1"	"EVA1A"
ENSG00000115364	ENSG00000005436	ENSG00000163541	ENSG00000186854	ENSG00000034510
"MRPL19"	"GCFC2"	"SUCLG1"	"TRABD2A"	"TMSB10"
ENSG00000176407	ENSG00000152291	ENSG00000042445	ENSG00000042493	ENSG00000168906
"KCMF1"	"TGOLN2"	"RETSAT"	"CAPG"	"MAT2A"
ENSG00000115486	ENSG00000168899	ENSG00000168890	ENSG00000168883	ENSG00000168874
"GGCX"	"VAMP5"	"TMEM150A"	"USP39"	"ATOH8"
ENSG00000132305	ENSG00000115548	ENSG00000239305	ENSG00000153561	ENSG00000172071
"IMMT"	"KDM3A"	"RNF103"	"RMND5A"	"EIF2AK3"
ENSG00000153574	ENSG00000233757	ENSG00000115042	ENSG00000174501	ENSG00000084090
"RPIA"	"ZNF892"	"FAHD2A"	"ANKRD36C"	"STARD7"
ENSG00000135956	ENSG00000144021	ENSG00000198885	ENSG00000121152	ENSG00000114982
"TMEM127"	"CIAO1"	"ITPRIPL1"	"NCAPH"	"KANSL3"
ENSG00000114988	ENSG00000158158	ENSG00000168763	ENSG00000213337	ENSG00000168758
"LMAN2L"	"CNNM4"	"CNNM3"	"ANKRD39"	"SEMA4C"
ENSG00000135976	ENSG00000075568	ENSG00000183513	ENSG00000115446	ENSG00000071073
"ANKRD36"	"TMEM131"	"COA5"	"UNC50"	"MGAT4A"
ENSG00000185414	ENSG00000144218	ENSG00000170485	ENSG00000071082	ENSG00000204634
"MRPL30"	"AFF3"	"NPAS2"	"RPL31"	"TBC1D8"
ENSG00000158435	ENSG00000175874	ENSG00000071054	ENSG00000115594	ENSG00000115598
"CNOT11"	"CREG2"	"MAP4K4"	"IL1R1"	"IL1RL2"
ENSG00000115602	ENSG00000115604	ENSG00000135953	ENSG00000135972	ENSG00000115641
"IL1RL1"	"IL18R1"	"MFSD9"	"MRPS9"	"FHL2"
ENSG00000071051	ENSG00000144057	ENSG00000135968	ENSG00000169756	ENSG00000153201
"NCK2"	"ST6GAL2"	"GCC2"	"LIMS1"	"RANBP2"
ENSG00000163006	ENSG00000172985	ENSG00000186522	ENSG00000198142	ENSG00000144063
"CCDC138"	"SH3RF3"	"SEPTIN10"	"SOWAHC"	"MALL"
ENSG00000169679	ENSG00000153094	ENSG00000153107	ENSG00000153214	ENSG00000125630
"BUB1"	"BCL2L11"	"ANAPC1"	"TMEM87B"	"POLR1B"
ENSG00000169607	ENSG00000115008	ENSG00000125538	ENSG00000144134	ENSG00000115084
"CKAP2L"	"IL1A"	"IL1B"	"RABL2A"	"SLC35F5"
ENSG00000115091	ENSG00000115107	ENSG00000155368	ENSG00000144120	ENSG00000088179
"ACTR3"	"STEAP3"	"DBI"	"TMEM177"	"PTPN4"
ENSG00000115109	ENSG00000144118	ENSG00000074047	ENSG00000074054	ENSG00000211460
"EPB41L5"	"RALB"	"GLI2"	"CLASP1"	"TSN"
ENSG00000163161	ENSG00000169967	ENSG00000072163	ENSG00000144231	ENSG00000144233

"ERCC3"	"MAP3K2"	"LIMS2"	"POLR2D"	"AMMECR1L"
ENSG00000136731	ENSG00000136720	ENSG00000196604	ENSG00000136699	ENSG00000152082
"UGGT1"	"HS6ST1"	"POTEF"	"SMPD4"	"MZT2B"
ENSG00000136710	ENSG00000136718	ENSG00000072135	ENSG00000152102	ENSG00000115762
"CCDC115"	"IMP4"	"PTPN18"	"FAM168B"	"PLEKHB2"
ENSG00000173272	ENSG00000183840	ENSG00000150551	ENSG00000176771	ENSG00000152127
"MZT2A"	"GPR39"	"LYPD1"	"NCKAP5"	"MGAT5"
ENSG00000082258	ENSG00000115839	ENSG00000121988	ENSG00000048991	ENSG00000144224
"CCNT2"	"RAB3GAP1"	"ZRANB3"	"R3HDM1"	"UBXN4"
ENSG00000076003	ENSG00000115866	ENSG00000150540	ENSG00000144228	ENSG00000168702
"MCM6"	"DARS1"	"HNMT"	"SPOPL"	"LRP1B"
ENSG00000115919	ENSG00000121964	ENSG00000169554	ENSG00000115947	ENSG00000204406
"KYNU"	"GTDC1"	"ZEB2"	"ORC4"	"MBD5"
ENSG00000135999	ENSG00000187123	ENSG00000168288	ENSG00000115963	ENSG00000123609
"EPC2"	"LYPD6"	"MMADHC"	"RND3"	"NMI"
ENSG00000123610	ENSG00000080345	ENSG00000162980	ENSG00000115145	ENSG00000157827
"TNFAIP6"	"RIF1"	"ARL5A"	"STAM2"	"FMNL2"
ENSG00000153234	ENSG00000115159	ENSG00000115170	ENSG00000144283	ENSG00000115183
"NR4A2"	"GPD2"	"ACVR1"	"PKP4"	"TANC1"
ENSG00000123636	ENSG00000153250	ENSG00000136560	ENSG00000115233	ENSG00000197635
"BAZ2B"	"RBMS1"	"TANK"	"PSMD14"	"DPP4"
ENSG00000078098	ENSG00000182263	ENSG00000082438	ENSG00000136531	ENSG00000115339
"FAP"	"FIGN"	"COBLL1"	"SCN2A"	"GALNT3"
ENSG00000169432	ENSG00000136546	ENSG00000172318	ENSG00000163072	ENSG00000152253
"SCN9A"	"SCN7A"	"B3GALT1"	"NOSTRIN"	"SPC25"
ENSG00000138382	ENSG00000144357	ENSG00000115806	ENSG00000123600	ENSG00000115827
"METTL5"	"UBR3"	"GORASP2"	"METTL8"	"DCAF17"
ENSG00000071967	ENSG00000077380	ENSG00000115840	ENSG00000128708	ENSG00000172878
"CYBRD1"	"DYNC1I2"	"SLC25A12"	"HAT1"	"METAP1D"
ENSG00000115844	ENSG00000091409	ENSG00000152256	ENSG00000091428	ENSG00000091436
"DLX2"	"ITGA6"	"PDK1"	"RAPGEF4"	"MAP3K20"
ENSG00000144354	ENSG00000172845	ENSG00000138430	ENSG00000138433	ENSG00000144306
"CDCA7"	"SP3"	"OLA1"	"CIR1"	"SCRN3"
ENSG00000163328	ENSG00000115935	ENSG00000128656	ENSG00000115966	ENSG00000154518
"GPR155"	"WIPF1"	"CHN1"	"ATF2"	"ATP5MC3"
ENSG00000144320	ENSG00000170144	ENSG00000116044	ENSG00000018510	ENSG00000128655
"LNPK"	"HNRNPA3"	"NFE2L2"	"AGPS"	"PDE11A"
ENSG00000079156	ENSG00000079150	ENSG00000116095	ENSG00000187231	ENSG00000170035
"OSBPL6"	"FKBP7"	"PLEKHA3"	"SESTD1"	"UBE2E3"
ENSG00000115232	ENSG00000188452	ENSG00000115252	ENSG00000077232	ENSG00000162998
"ITGA4"	"CERKL"	"PDE1A"	"DNAJC10"	"FRZB"
ENSG00000061676	ENSG00000163002	ENSG00000170396	ENSG00000138448	ENSG00000144369
"NCKAP1"	"NUP35"	"ZNF804A"	"ITGAV"	"FAM171B"

ENSG00000064989	ENSG00000003436	ENSG00000144366	ENSG00000168542	ENSG00000204262
"CALCRL"	"TFPI"	"GULP1"	"COL3A1"	"COL5A2"
ENSG00000138449	ENSG00000138381	ENSG00000128699	ENSG00000151689	ENSG00000189362
"SLC40A1"	"ASNSD1"	"ORMDL1"	"INPP1"	"NEMP2"
ENSG00000115419	ENSG00000115415	ENSG00000128641	ENSG00000168497	ENSG00000144339
"GLS"	"STAT1"	"MYO1B"	"CAVIN2"	"TMEFF2"
ENSG00000196950	ENSG00000081320	ENSG00000138411	ENSG00000144395	ENSG00000197121
"SLC39A10"	"STK17B"	"HECW2"	"CCDC150"	"PGAP1"
ENSG00000065413	ENSG00000115520	ENSG00000144381	ENSG00000115541	ENSG00000115540
"ANKRD44"	"COQ10B"	"HSPD1"	"HSPE1"	"MOB4"
ENSG00000162944	ENSG00000247626	ENSG00000119042	ENSG00000178074	ENSG00000196141
"RFTN2"	"MARS2"	"SATB2"	"C2orf69"	"SPATS2L"
ENSG00000163535	ENSG00000138356	ENSG00000082153	ENSG00000013441	ENSG00000240344
"SGO2"	"AOX1"	"BZW1"	"CLK1"	"PPIL3"
ENSG00000155744	ENSG00000003402	ENSG00000064012	ENSG00000082146	ENSG00000155755
"HYCC2"	"CFLAR"	"CASP8"	"STRADB"	"TMEM237"
ENSG00000082126	ENSG00000138395	ENSG00000155760	ENSG00000182329	ENSG00000116030
"MPP4"	"CDK15"	"FZD7"	"KIAA2012"	"SUMO1"
ENSG00000055044	ENSG00000138439	ENSG00000138442	ENSG00000144426	ENSG00000119004
"NOP58"	"FAM117B"	"WDR12"	"NBEAL1"	"CYP20A1"
ENSG00000138443	ENSG00000173166	ENSG00000116117	ENSG00000114933	ENSG00000114942
"ABI2"	"RAPH1"	"PARD3B"	"INO80D"	"EEF1B2"
ENSG00000183671	ENSG00000204186	ENSG00000114948	ENSG00000118246	ENSG00000118263
"CMKLR2"	"ZDBF2"	"ADAM23"	"FASTKD2"	"KLF7"
ENSG00000163249	ENSG00000138413	ENSG00000115020	ENSG00000197713	ENSG00000144445
"CCNYL1"	"IDH1"	"PIKFYVE"	"RPE"	"KANSL1L"
ENSG00000115365	ENSG00000030419	ENSG00000144451	ENSG00000138376	ENSG00000138363
"LANCL1"	"IKZF2"	"SPAG16"	"BARD1"	"ATIC"
ENSG00000115414	ENSG00000118242	ENSG00000115425	ENSG00000144583	ENSG00000138375
"FN1"	"MREG"	"PECR"	"MARCF4"	"SMARCAL1"
ENSG00000197756	ENSG00000115457	ENSG00000115461	ENSG00000231672	ENSG00000079308
"RPL37A"	"IGFBP2"	"IGFBP5"	"DIRC3"	"TNS1"
ENSG00000163466	ENSG00000127837	ENSG00000127838	ENSG00000135926	ENSG00000144579
"ARPC2"	"AAMP"	"PNKD"	"TMBIM1"	"CTDSP1"
ENSG00000135913	ENSG00000144580	ENSG00000074582	ENSG00000163482	ENSG00000135912
"USP37"	"CNOT9"	"BCS1L"	"STK36"	"TTL4"
ENSG00000135929	ENSG00000144567	ENSG00000198925	ENSG00000163516	ENSG00000127824
"CYP27A1"	"RETREG2"	"ATG9A"	"ANKZF1"	"TUBA4A"
ENSG00000135924	ENSG00000123992	ENSG00000175084	ENSG00000072195	ENSG00000144591
"DNAJB2"	"DNPEP"	"DES"	"SPEG"	"GMPA"
ENSG00000123989	ENSG00000188760	ENSG00000124006	ENSG00000144589	ENSG00000116106
"CHPF"	"TMEM198"	"OBSL1"	"STK11IP"	"EPHA4"
ENSG00000116120	ENSG00000123983	ENSG00000152049	ENSG00000171951	ENSG00000152056

"FARSB"	"ACSL3"	"KCNE4"	"SCG2"	"AP1S3"
ENSG00000085449	ENSG000000135919	ENSG000000135905	ENSG000000144468	ENSG000000168958
"WDFY1"	"SERPINE2"	"DOCK10"	"RHBDD1"	"MFF"
ENSG000000123977	ENSG000000187957	ENSG000000163053	ENSG000000185404	ENSG000000067066
"DAW1"	"DNER"	"SLC16A14"	"SP140L"	"SP100"
ENSG000000135932	ENSG000000135916	ENSG000000173692	ENSG000000135931	ENSG000000115053
"CAB39"	"ITM2C"	"PSMD1"	"ARMC9"	"NCL"
ENSG000000187514	ENSG000000156973	ENSG000000163273	ENSG000000135930	ENSG000000204120
"PTMA"	"PDE6D"	"NPPC"	"EIF4E2"	"GIGYF2"
ENSG000000168918	ENSG000000077044	ENSG000000085982	ENSG000000123485	ENSG000000188042
"INPP5D"	"DGKD"	"USP40"	"HJURP"	"ARL4C"
ENSG000000157985	ENSG000000198612	ENSG000000115648	ENSG000000124831	ENSG000000132329
"AGAP1"	"COPS8"	"MLPH"	"LRRFIP1"	"RAMP1"
ENSG000000184182	ENSG000000144488	ENSG000000178752	ENSG000000144485	ENSG000000132326
"UBE2F"	"ESPNL"	"ERFE"	"HES6"	"PER2"
ENSG000000204104	ENSG000000065802	ENSG000000130414	ENSG000000063660	ENSG000000142330
"TRAF3IP1"	"ASB1"	"NDUFA10"	"GPC1"	"CAPN10"
ENSG000000162804	ENSG000000115687	ENSG000000146205	ENSG000000115677	ENSG000000168385
"SNED1"	"PASK"	"ANO7"	"HDLBP"	"SEPTIN2"
ENSG00000006607	ENSG000000115694	ENSG000000176720	ENSG000000176946	ENSG000000168397
"FARP2"	"STK25"	"BOK"	"THAP4"	"ATG4B"
ENSG000000168393	ENSG000000180902	ENSG000000134121	ENSG000000144619	ENSG000000113851
"DTYMK"	"D2HGDH"	"CHL1"	"CNTN4"	"CRBN"
ENSG000000144455	ENSG000000175928	ENSG000000134108	ENSG000000134109	ENSG000000071282
"SUMF1"	"LRRN1"	"ARL8B"	"EDEM1"	"LMCD1"
ENSG000000180914	ENSG000000070950	ENSG000000196220	ENSG000000168137	ENSG000000163719
"OXTR"	"RAD18"	"SRGAP3"	"SETD5"	"MTMR14"
ENSG000000156983	ENSG000000114026	ENSG000000134072	ENSG000000171148	ENSG000000214021
"BRPF1"	"OGG1"	"CAMK1"	"TADA3"	"TTLL3"
ENSG000000156990	ENSG000000163701	ENSG000000163703	ENSG000000163704	ENSG000000125037
"RPUSD3"	"IL17RE"	"CRELD1"	"PRRT3"	"EMC3"
ENSG000000144554	ENSG000000254999	ENSG000000134086	ENSG000000134070	ENSG000000157014
"FANCD2"	"BRK1"	"VHL"	"IRAK2"	"TATDN2"
ENSG000000157020	ENSG000000196639	ENSG000000197548	ENSG000000132170	ENSG000000075975
"SEC13"	"HRH1"	"ATG7"	"PPARG"	"MKRN2"
ENSG000000132155	ENSG000000144712	ENSG000000144713	ENSG000000144711	ENSG000000170876
"RAF1"	"CAND2"	"RPL32"	"IQSEC1"	"TMEM43"
ENSG000000170860	ENSG000000177463	ENSG000000131368	ENSG000000144597	ENSG000000131373
"LSM3"	"NR2C2"	"MRPS25"	"EAF1"	"HACL1"
ENSG000000206560	ENSG000000131386	ENSG000000154813	ENSG000000154814	ENSG000000131378
"ANKRD28"	"GALNT15"	"DPH3"	"OXNAD1"	"RFTN1"
ENSG000000182568	ENSG000000144566	ENSG000000114166	ENSG000000129810	ENSG000000151789
"SATB1"	"RAB5A"	"KAT2B"	"SGO1"	"ZNF385D"

ENSG00000182247	ENSG00000170142	ENSG00000174738	ENSG00000163491	ENSG00000033867
"UBE2E2"	"UBE2E1"	"NR1D2"	"NEK10"	"SLC4A7"
ENSG00000144642	ENSG00000163513	ENSG00000163527	ENSG00000152642	ENSG00000153551
"RBMS3"	"TGFB2"	"STT3B"	"GPD1L"	"CMTM7"
ENSG00000091317	ENSG00000144635	ENSG00000182973	ENSG00000170266	ENSG00000188167
"CMTM6"	"DYNCL11"	"CNOT10"	"GLB1"	"TMPPE"
ENSG00000170275	ENSG00000173705	ENSG00000153558	ENSG00000153560	ENSG00000163539
"CRTAP"	"SUSD5"	"FBXL2"	"UBP1"	"CLASP2"
ENSG00000178567	ENSG00000076242	ENSG00000093167	ENSG00000144674	ENSG00000172936
"EPM2AIP1"	"MLH1"	"LRRFIP2"	"GOLGA4"	"MYD88"
ENSG00000172939	ENSG00000093217	ENSG00000114739	ENSG00000157036	ENSG00000114742
"OXSR1"	"XYLB"	"ACVR2B"	"EXOG"	"WDR48"
ENSG00000114745	ENSG00000168026	ENSG00000144655	ENSG00000168334	ENSG00000144659
"GORASP1"	"TTC21A"	"CSRNP1"	"XIRP1"	"SLC25A38"
ENSG00000168028	ENSG00000114784	ENSG00000188846	ENSG00000168036	ENSG00000182606
"RPSA"	"EIF1B"	"RPL14"	"CTNNB1"	"TRAK1"
ENSG00000093183	ENSG00000114857	ENSG00000181061	ENSG00000144647	ENSG00000163788
"SEC22C"	"NKTR"	"HIGD1A"	"POMGNT2"	"SNRK"
ENSG00000011198	ENSG00000179152	ENSG00000163808	ENSG00000169964	ENSG00000163812
"ABHD5"	"TCAIM"	"KIF15"	"TMEM42"	"ZDHC3"
ENSG00000075914	ENSG00000163814	ENSG00000249992	ENSG00000144791	ENSG00000163827
"EXOSC7"	"CDCP1"	"TMEM158"	"LIMD1"	"LRRC2"
ENSG00000178038	ENSG00000160796	ENSG00000181555	ENSG00000114648	ENSG00000076201
"ALS2CL"	"NBEAL2"	"SETD2"	"KLHL18"	"PTPN23"
ENSG00000114650	ENSG00000163832	ENSG00000173473	ENSG00000132153	ENSG00000047849
"SCAP"	"ELP6"	"SMARCC1"	"DHX30"	"MAP4"
ENSG00000164045	ENSG00000172113	ENSG00000164050	ENSG00000114270	ENSG00000225697
"CDC25A"	"NME6"	"PLXNB1"	"COL7A1"	"SLC26A6"
ENSG00000008300	ENSG00000213672	ENSG00000068745	ENSG00000178467	ENSG00000178252
"CELSR3"	"NCKIPSD"	"IP6K2"	"P4HTM"	"WDR6"
ENSG00000178057	ENSG00000178035	ENSG00000172053	ENSG00000172046	ENSG00000177352
"NDUFAF3"	"IMPDH2"	"QARS1"	"USP19"	"CCDC71"
ENSG00000185909	ENSG00000188315	ENSG00000114316	ENSG00000067560	ENSG00000173402
"KLHDC8B"	"C3orf62"	"USP4"	"RHOA"	"DAG1"
ENSG00000173531	ENSG00000164068	ENSG00000176095	ENSG00000182179	ENSG00000183763
"MST1"	"RNF123"	"IP6K1"	"UBA7"	"TRAIP"
ENSG00000004534	ENSG00000003756	ENSG00000001617	ENSG00000114353	ENSG00000012171
"RBM6"	"RBM5"	"SEMA3F"	"GNAI2"	"SEMA3B"
ENSG00000214706	ENSG00000243477	ENSG00000068001	ENSG00000068028	ENSG00000126062
"IFRD2"	"NAA80"	"HYAL2"	"RASSF1"	"TMEM115"
ENSG00000114737	ENSG00000114738	ENSG00000145050	ENSG00000259956	ENSG00000164080
"CISH"	"MAPKAPK3"	"MANF"	"RBM15B"	"RAD54L2"
ENSG00000164081	ENSG00000114767	ENSG00000041880	ENSG00000090097	ENSG00000114779

"TEX264"	"RRP9"	"PARP3"	"PCBP4"	"ABHD14B"
ENSG00000248487	ENSG00000162244	ENSG00000164086	ENSG00000164087	ENSG00000023330
"ABHD14A"	"RPL29"	"DUSP7"	"POC1A"	"ALAS1"
ENSG00000164088	ENSG00000114841	ENSG00000163930	ENSG00000010322	ENSG00000168268
"PPM1M"	"DNAH1"	"BAP1"	"NISCH"	"NT5DC2"
ENSG00000163939	ENSG00000114904	ENSG00000163935	ENSG00000163933	ENSG00000163932
"PBRM1"	"NEK4"	"SFMBT1"	"RFT1"	"PRKCD"
ENSG00000163931	ENSG00000272886	ENSG00000113812	ENSG00000113811	ENSG00000157445
"TKT"	"DCP1A"	"ACTR8"	"SELENOK"	"CACNA2D3"
ENSG00000114251	ENSG00000163946	ENSG00000163947	ENSG00000144730	ENSG00000157500
"WNT5A"	"TASOR"	"ARHGEF3"	"IL17RD"	"APPL1"
ENSG00000174840	ENSG00000174839	ENSG00000163681	ENSG00000136068	ENSG00000168297
"PDE12"	"DENND6A"	"SLMAP"	"FLNB"	"PKX"
ENSG00000168291	ENSG00000168301	ENSG00000168306	ENSG00000163689	ENSG00000144724
"PDHB"	"KCTD6"	"ACOX2"	"CFAP20DC"	"PTPRG"
ENSG00000163634	ENSG00000163635	ENSG00000163636	ENSG00000163637	ENSG00000163638
"THOC7"	"ATXN7"	"PSMD6"	"PRICKLE2"	"ADAMTS9"
ENSG00000151276	ENSG00000144741	ENSG00000144749	ENSG00000163376	ENSG00000172340
"MAGI1"	"SLC25A26"	"LRIG1"	"KBTBD8"	"SUCLG2"
ENSG00000163378	ENSG00000144747	ENSG00000144746	ENSG00000114541	ENSG00000187098
"EOGT"	"TMF1"	"ARL6IP5"	"FRMD4B"	"MITF"
ENSG00000163602	ENSG00000144736	ENSG00000172986	ENSG00000121440	ENSG00000185008
"RYBP"	"SHQ1"	"GXylT2"	"PDZRN3"	"ROBO2"
ENSG00000169855	ENSG00000114480	ENSG00000206538	ENSG00000083937	ENSG00000163320
"ROBO1"	"GBE1"	"VGLL3"	"CHMP2B"	"CGGBP1"
ENSG00000175105	ENSG00000179021	ENSG00000044524	ENSG00000184500	ENSG00000169379
"ZNF654"	"C3orf38"	"EPAH3"	"PROS1"	"ARL13B"
ENSG00000178700	ENSG00000178694	ENSG00000170854	ENSG00000080822	ENSG00000080819
"DHFR2"	"NSUN3"	"RIOX2"	"CLDND1"	"CPOX"
ENSG00000057019	ENSG00000144810	ENSG00000184220	ENSG00000168386	ENSG00000036054
"DCBLD2"	"COL8A1"	"CMSS1"	"FILIP1L"	"TBC1D23"
ENSG00000154174	ENSG00000206535	ENSG00000181458	ENSG00000114354	ENSG00000154175
"TOMM70"	"LNP1"	"TMEM45A"	"TFG"	"ABI3BP"
ENSG00000174173	ENSG00000114391	ENSG00000182504	ENSG00000144815	ENSG00000144802
"TRMT10C"	"RPL24"	"CEP97"	"NXPE3"	"NFKBIZ"
ENSG00000170017	ENSG00000114423	ENSG00000114439	ENSG00000196776	ENSG00000144821
"ALCAM"	"CBLB"	"BBX"	"CD47"	"MYH15"
ENSG00000163507	ENSG00000198919	ENSG00000177707	ENSG00000240891	ENSG00000144824
"CIP2A"	"DZIP3"	"NECTIN3"	"PLCXD2"	"PHLDB2"
ENSG00000144827	ENSG00000144834	ENSG00000091986	ENSG00000163607	ENSG00000144857
"ABHD10"	"TAGLN3"	"CCDC80"	"GTPBP8"	"BOC"
ENSG00000206530	ENSG00000163611	ENSG00000114573	ENSG00000178075	ENSG00000172020
"CFAP44"	"SPICE1"	"ATP6V1A"	"GRAMD1C"	"GAP43"

ENSG00000185565	ENSG00000121578	ENSG00000113845	ENSG00000082701	ENSG00000163428
"LSAMP"	"B4GALT4"	"TIMMDC1"	"GSK3B"	"LRRRC58"
ENSG00000065518	ENSG00000144840	ENSG00000153767	ENSG00000051341	ENSG00000160124
"NDUFB4"	"RABL3"	"GTF2E1"	"POLQ"	"MIX23"
ENSG00000114030	ENSG00000138496	ENSG00000163840	ENSG00000173193	ENSG00000169087
"KPNA1"	"PARP9"	"DTX3L"	"PARP14"	"HSPBAP1"
ENSG00000138463	ENSG00000121542	ENSG00000206527	ENSG00000065534	ENSG00000175455
"SLC49A4"	"SEC22A"	"HACD2"	"MYLK"	"CCDC14"
ENSG00000160145	ENSG00000082781	ENSG00000173706	ENSG00000221955	ENSG00000163848
"KALRN"	"ITGB5"	"HEG1"	"SLC12A8"	"ZNF148"
ENSG00000114544	ENSG00000070476	ENSG00000159685	ENSG00000114554	ENSG00000163870
"SLC41A3"	"ZXDC"	"CHCHD6"	"PLXNA1"	"TPRA1"
ENSG00000073111	ENSG00000114626	ENSG00000074416	ENSG00000058262	ENSG00000175792
"MCM2"	"ABTB1"	"MGLL"	"SEC61A1"	"RUVBL1"
ENSG00000132394	ENSG00000179348	ENSG00000163902	ENSG00000075785	ENSG00000177646
"EEFSEC"	"GATA2"	"RPN1"	"RAB7A"	"ACAD9"
ENSG00000114654	ENSG00000172780	ENSG00000181789	ENSG00000129071	ENSG00000172765
"EFCC1"	"RAB43"	"COPG1"	"MBD4"	"TMCC1"
ENSG00000196455	ENSG00000017260	ENSG00000034533	ENSG00000114686	ENSG00000138246
"PIK3R4"	"ATP2C1"	"ASTE1"	"MRPL3"	"DNAJC13"
ENSG00000129048	ENSG00000081307	ENSG00000091527	ENSG00000163781	ENSG00000154917
"ACKR4"	"UBA5"	"CDV3"	"TOPBP1"	"RAB6B"
ENSG00000174640	ENSG00000114019	ENSG00000154928	ENSG00000073711	ENSG00000174579
"SLC02A1"	"AMOTL2"	"EPHB1"	"PPP2R3A"	"MSL2"
ENSG00000114054	ENSG00000158092	ENSG00000158163	ENSG00000114098	ENSG00000158186
"PCCB"	"NCK1"	"DZIP1L"	"ARMC8"	"MRAS"
ENSG00000114107	ENSG00000051382	ENSG00000183770	ENSG00000206262	ENSG00000114115
"CEP70"	"PIK3CB"	"FOX2L2"	"FOX2L2NB"	"RBP1"
ENSG00000114120	ENSG00000155893	ENSG00000177311	ENSG00000155903	ENSG00000069849
"SLC25A36"	"PXYLP1"	"ZBTB38"	"RASA2"	"ATP1B3"
ENSG00000114126	ENSG00000114127	ENSG00000163710	ENSG00000163714	ENSG00000175040
"TFDP2"	"XRN1"	"PCOLCE2"	"U2SURP"	"CHST2"
ENSG00000181744	ENSG00000152952	ENSG00000114698	ENSG00000188313	ENSG00000163754
"DIPK2A"	"PLOD2"	"PLSCR4"	"PLSCR1"	"GYG1"
ENSG00000071794	ENSG00000163755	ENSG00000169908	ENSG00000114744	ENSG00000082996
"HLTF"	"HPS3"	"TM4SF1"	"COMMD2"	"RNF13"
ENSG00000196428	ENSG00000144895	ENSG00000198843	ENSG00000144893	ENSG00000152580
"TSC22D2"	"EIF2A"	"SELENOT"	"MED12L"	"IGSF10"
ENSG00000114771	ENSG00000152601	ENSG00000169860	ENSG00000114790	ENSG00000174953
"AADAC"	"MBNL1"	"P2RY1"	"ARHGEF26"	"DHX36"
ENSG00000196549	ENSG00000174928	ENSG00000163655	ENSG00000169282	ENSG00000114850
"MME"	"C3orf33"	"GMPS"	"KCNA1B1"	"SSR3"
ENSG00000163659	ENSG00000163660	ENSG00000197415	ENSG00000163661	ENSG00000079257

"TIPARP"	"CCNL1"	"VEPH1"	"PTX3"	"LXN"
ENSG00000118855	ENSG00000250588	ENSG00000168811	ENSG00000180044	ENSG00000113810
"MFSD1"	NA	"IL12A"	"C3orf80"	"SMC4"
ENSG00000213186	ENSG00000186432	ENSG00000163590	ENSG00000169255	ENSG00000169251
"TRIM59"	"KPNA4"	"PPM1L"	"B3GALNT1"	"NMD3"
ENSG00000114209	ENSG00000173905	ENSG00000085276	ENSG00000008952	ENSG00000163558
"PDCD10"	"GOLIM4"	"MECOM"	"SEC62"	"PRKCI"
ENSG00000136603	ENSG00000013297	ENSG00000013293	ENSG00000163584	ENSG00000163577
"SKIL"	"CLDN11"	"SLC7A14"	"RPL22L1"	"EIF5A2"
ENSG00000154310	ENSG00000075651	ENSG00000075420	ENSG00000144959	ENSG00000114346
"TNIK"	"PLD1"	"FNDC3B"	"NCEH1"	"ECT2"
ENSG00000177694	ENSG00000177565	ENSG00000172667	ENSG00000121879	ENSG00000121864
"NAALADL2"	"TBL1XR1"	"ZMAT3"	"PIK3CA"	"ZNF639"
ENSG00000171109	ENSG00000136518	ENSG00000058056	ENSG00000163728	ENSG00000205981
"MFN1"	"ACTL6A"	"USP13"	"TTC14"	"DNAJC19"
ENSG00000043093	ENSG00000114796	ENSG00000180834	ENSG00000114770	ENSG00000161202
"DCUN1D1"	"KLHL24"	"MAP6D1"	"ABCC5"	"DVL3"
ENSG00000161203	ENSG00000214160	ENSG00000145194	ENSG00000175166	ENSG00000114867
"AP2M1"	"ALG3"	"ECE2"	"PSMD2"	"EIF4G1"
ENSG00000114859	ENSG00000163882	ENSG00000182580	ENSG00000177383	ENSG00000156931
"CLCN2"	"POLR2H"	"EPHB3"	"MAGEF1"	"VPS8"
ENSG00000187068	ENSG00000113790	ENSG00000163898	ENSG00000163904	ENSG00000073792
"C3orf70"	"EHHADH"	"LIPH"	"SENP2"	"IGF2BP2"
ENSG00000136527	ENSG00000244405	ENSG00000058866	ENSG00000113838	ENSG00000090520
"TRA2B"	"ETV5"	"DGKG"	"TBCCD1"	"DNAJB11"
ENSG00000156976	ENSG00000163918	ENSG00000073849	ENSG00000163923	ENSG00000127241
"EIF4A2"	"RFC4"	"ST6GAL1"	"RPL39L"	"MASP1"
ENSG00000145012	ENSG00000090530	ENSG00000163347	ENSG00000196083	ENSG00000152492
"LPP"	"P3H2"	"CLDN1"	"IL1RAP"	"CCDC50"
ENSG00000180611	ENSG00000198836	ENSG00000114315	ENSG00000172061	ENSG00000133657
"MB21D2"	"OPA1"	"HES1"	"LRRC15"	"ATP13A3"
ENSG00000145014	ENSG00000185112	ENSG00000114331	ENSG00000184203	ENSG00000061938
"TMEM44"	"FAM43A"	"ACAP2"	"PPP1R2"	"TNK2"
ENSG00000161217	ENSG00000163961	ENSG00000174004	ENSG00000163964	ENSG00000174007
"PCYT1A"	"RNF168"	"NRROS"	"PIGX"	"CEP19"
ENSG00000180370	ENSG00000119231	ENSG00000114503	ENSG00000270170	ENSG00000075711
"PAK2"	"SENP5"	"NCBP2"	"NCBP2AS2"	"DLG1"
ENSG00000122068	ENSG00000182903	ENSG00000174227	ENSG00000185619	ENSG00000178950
"FYTTD1"	"ZNF721"	"PIGG"	"PCGF3"	"GAK"
ENSG00000145214	ENSG00000127415	ENSG00000127418	ENSG00000159674	ENSG00000159692
"DGKQ"	"IDUA"	"FGFRL1"	"SPON2"	"CTBP1"
ENSG00000179979	ENSG00000163950	ENSG00000168936	ENSG00000013810	ENSG00000109685
NA	"SLBP"	"TMEM129"	"TACC3"	"NSD2"

ENSG00000185049	ENSG00000243449	ENSG00000185818	ENSG00000123933	ENSG00000063978
"NELFA"	"NICOL1"	"NAT8L"	"MXD4"	"RNF4"
ENSG00000168884	ENSG00000197386	ENSG00000159788	ENSG00000163956	ENSG00000145220
"TNIP2"	"HTT"	"RGS12"	"LRPAP1"	"LYAR"
ENSG00000168824	ENSG00000168818	ENSG00000170891	ENSG00000152953	ENSG00000072840
"NSG1"	"STX18"	"CYTL1"	"STK32B"	"EVC"
ENSG00000013288	ENSG00000179010	ENSG00000178988	ENSG00000186222	ENSG00000170871
"MAN2B2"	"MRFAP1"	"MRFAP1L1"	"BLOC1S4"	"KIAA0232"
ENSG00000196526	ENSG00000125089	ENSG00000087008	ENSG00000071127	ENSG00000178163
"AFAP1"	"SH3TC1"	"ACOX3"	"WDR1"	"ZNF518B"
ENSG00000038219	ENSG00000137449	ENSG00000118564	ENSG00000237765	ENSG00000169762
"BOD1L1"	"CPEB2"	"FBXL5"	"FAM200B"	"TAPT1"
ENSG00000169744	ENSG00000151552	ENSG00000002549	ENSG00000118579	ENSG00000163257
"LDB2"	"QDPR"	"LAP3"	"MED28"	"DCAF16"
ENSG00000109805	ENSG00000178177	ENSG00000145147	ENSG00000152990	ENSG00000109606
"NCAPG"	"LCORL"	"SLIT2"	"ADGRA3"	"DHX15"
ENSG00000181982	ENSG00000038210	ENSG00000168228	ENSG00000091490	ENSG00000168214
"CCDC149"	"PI4K2B"	"ZCCHC4"	"SEL1L3"	"RBPJ"
ENSG00000109680	ENSG00000109689	ENSG00000169851	ENSG00000181826	ENSG00000169299
"TBC1D19"	"STIM2"	"PCDH7"	"RELL1"	"PGM2"
ENSG00000065882	ENSG00000109787	ENSG00000174130	ENSG00000197712	ENSG00000121895
"TBC1D1"	"KLF3"	"TLR6"	"FAM114A1"	"TMEM156"
ENSG00000109790	ENSG00000157796	ENSG00000035928	ENSG00000163682	ENSG00000163683
"KLHL5"	"WDR19"	"RFC1"	"RPL9"	"SMIM14"
ENSG00000078140	ENSG00000078177	ENSG00000163697	ENSG00000154277	ENSG00000064042
"UBE2K"	"N4BP2"	"APBB2"	"UCHL1"	"LIMCH1"
ENSG00000109133	ENSG00000182308	ENSG00000124406	ENSG00000183783	ENSG00000163281
"TMEM33"	"DCAF4L1"	"ATP8A1"	"KCTD8"	"GNPDA2"
ENSG00000151834	ENSG00000109158	ENSG00000163288	ENSG00000145246	ENSG00000145244
"GABRA2"	"GABRA4"	"GABRB1"	"ATP10D"	"CORIN"
ENSG00000170448	ENSG00000163293	ENSG00000109180	ENSG00000188993	ENSG00000163071
"NFXL1"	"NIPAL1"	"OCIAD1"	"LRRC66"	"SPATA18"
ENSG00000109189	ENSG00000226887	ENSG00000128045	ENSG00000145216	ENSG00000072201
"USP46"	"ERVMER34-1"	"RASL11B"	"FIP1L1"	"LNK1"
ENSG00000109220	ENSG00000134853	ENSG00000157404	ENSG00000128052	ENSG00000134851
"CHIC2"	"PDGFRA"	"KIT"	"KDR"	"TMEM165"
ENSG00000134852	ENSG00000174799	ENSG00000109265	ENSG00000128059	ENSG00000128050
"CLOCK"	"CEP135"	"CRACD"	"PPAT"	"PAICS"
ENSG00000174780	ENSG00000171476	ENSG00000084093	ENSG00000084092	ENSG00000047315
"SRP72"	"HOPX"	"REST"	"NOA1"	"POLR2B"
ENSG00000163453	ENSG00000150471	ENSG00000145242	ENSG00000132463	ENSG00000173542
"IGFBP7"	"ADGRL3"	"EPHA5"	"GRSF1"	"MOB1B"
ENSG00000080493	ENSG00000132466	ENSG00000081051	ENSG00000169429	ENSG00000124875

"SLC4A4"	"ANKRD17"	"AFP"	"CXCL8"	"CXCL6"
ENSG00000163739	ENSG00000163735	ENSG00000163734	ENSG00000081041	ENSG00000124882
"CXCL1"	"CXCL5"	"CXCL3"	"CXCL2"	"EREG"
ENSG00000109321	ENSG00000169116	ENSG00000138757	ENSG00000138768	ENSG00000138744
"AREG"	"PARM1"	"G3BP2"	"USO1"	"NAAA"
ENSG00000198301	ENSG00000138750	ENSG00000138760	ENSG00000138771	ENSG00000138764
"SDAD1"	"NUP54"	"SCARB2"	"SHROOM3"	"CCNG2"
ENSG00000138767	ENSG00000169288	ENSG00000138772	ENSG00000163291	ENSG00000152784
"CNOT6L"	"MRPL1"	"ANXA3"	"PAQR3"	"PRDM8"
ENSG00000138675	ENSG00000138669	ENSG00000138668	ENSG00000145293	ENSG00000145284
"FGF5"	"PRKG2"	"HNRNPD"	"ENOPH1"	"SCD5"
ENSG00000138674	ENSG00000138663	ENSG00000138678	ENSG00000163625	ENSG00000109339
"SEC31A"	"COPS4"	"GPAT3"	"WDFY3"	"MAPK10"
ENSG00000163629	ENSG00000172493	ENSG00000198189	ENSG00000170502	ENSG00000118785
"PTPN13"	"AFF1"	"HSD17B11"	"NUDT9"	"SPP1"
ENSG00000118762	ENSG00000118777	ENSG00000138642	ENSG00000138641	ENSG00000177432
"PKD2"	"ABCG2"	"HERC6"	"HERC3"	"NAP1L5"
ENSG00000138640	ENSG00000180346	ENSG00000185477	ENSG00000145335	ENSG00000163104
"FAM13A"	"TIGD2"	"GPRIN3"	"SNCA"	"SMARCA1"
ENSG00000163110	ENSG00000138696	ENSG00000182168	ENSG00000138698	ENSG00000151247
"PDLIM5"	"BMPR1B"	"UNC5C"	"RAP1GDS1"	"EIF4E"
ENSG00000164024	ENSG00000197894	ENSG00000109270	ENSG00000164031	ENSG00000164032
"METAP1"	"ADH5"	"LAMTOR3"	"DNAJB14"	"H2AZ1"
ENSG00000145358	ENSG00000138814	ENSG00000109320	ENSG00000109323	ENSG00000109332
"DDIT4L"	"PPP3CA"	"NFKB1"	"MANBA"	"UBE2D3"
ENSG00000145354	ENSG00000164038	ENSG00000164039	ENSG00000138778	ENSG00000168769
"CISD2"	"SLC9B2"	"BDH2"	"CENPE"	"TET2"
ENSG00000138777	ENSG00000138780	ENSG00000145348	ENSG00000164022	ENSG00000155011
"PPA2"	"GSTCD"	"TBCK"	"AIMP1"	"DKK2"
ENSG00000138801	ENSG00000164023	ENSG00000155016	ENSG00000138796	ENSG00000138795
"PAPSS1"	"SGMS2"	"CYP2U1"	"HADH"	"LEF1"
ENSG00000198856	ENSG00000138802	ENSG00000005059	ENSG00000138798	ENSG00000170522
"OSTC"	"SEC24B"	"MCUB"	"EGF"	"ELOVL6"
ENSG00000164093	ENSG00000174749	ENSG00000138660	ENSG00000145365	ENSG00000073331
"PITX2"	"FAM241A"	"AP1AR"	"TIFA"	"ALPK1"
ENSG00000138658	ENSG00000145362	ENSG00000145349	ENSG00000180801	ENSG00000164099
"ZGRF1"	"ANK2"	"CAMK2D"	"ARSJ"	"PRSS12"
ENSG00000150961	ENSG00000172403	ENSG00000145390	ENSG00000164096	ENSG00000164109
"SEC24D"	"SYNP02"	"USP53"	"C4orf3"	"MAD2L1"
ENSG00000138738	ENSG00000164111	ENSG00000123737	ENSG00000145386	ENSG00000138686
"PRDM5"	"ANXA5"	"EXOSC9"	"CCNA2"	"BBS7"
ENSG00000138741	ENSG00000138688	ENSG00000181004	ENSG00000138685	ENSG00000164056
"TRPC3"	"BLTP1"	"BBS12"	"FGF2"	"SPRY1"

ENSG00000151458	ENSG00000196159	ENSG00000164066	ENSG00000164070	ENSG00000142731
"ANKRD50"	"FAT4"	"INTU"	"HSPA4L"	"PLK4"
ENSG00000164073	ENSG00000164040	ENSG00000077684	ENSG00000151466	ENSG00000151470
"MFSD8"	"PGRMC2"	"JADE1"	"SCLT1"	"C4orf33"
ENSG00000138650	ENSG00000254535	ENSG00000189184	ENSG00000151012	ENSG00000151014
"PCDH10"	"PABPC4L"	"PCDH18"	"SLC7A11"	"NOCT"
ENSG00000137463	ENSG00000109390	ENSG00000164134	ENSG00000145391	ENSG00000196782
"MGARP"	"NDUFC1"	"NAA15"	"SETD7"	"MAML3"
ENSG00000153132	ENSG00000179387	ENSG00000170153	ENSG00000109445	ENSG00000164136
"CLGN"	"ELMOD2"	"RNF150"	"ZNF330"	"IL15"
ENSG00000109452	ENSG00000170185	ENSG00000109458	ENSG00000153147	ENSG00000164161
"INPP4B"	"USP38"	"GAB1"	"SMARCA5"	"HHIP"
ENSG00000164162	ENSG00000164163	ENSG00000170365	ENSG00000151612	ENSG00000137473
"ANAPC10"	"ABCE1"	"SMAD1"	"ZNF827"	"TTC29"
ENSG00000151617	ENSG00000071205	ENSG00000151623	ENSG00000170390	ENSG00000198589
"EDNRA"	"ARHGAP10"	"NR3C2"	"DCLK2"	"LRBA"
ENSG00000181541	ENSG00000145425	ENSG00000109686	ENSG00000059691	ENSG00000109670
"MAB21L2"	"RPS3A"	"SH3D19"	"GATB"	"FBXW7"
ENSG00000170006	ENSG00000164144	ENSG00000109654	ENSG00000121211	ENSG00000171566
"TMEM154"	"ARFIP1"	"TRIM2"	"MND1"	"PLRG1"
ENSG00000061918	ENSG00000256043	ENSG00000145431	ENSG00000205208	ENSG00000171503
"GUCY1B1"	"CTSO"	"PDGFC"	"C4orf46"	"ETFDH"
ENSG00000171497	ENSG00000052795	ENSG00000170088	ENSG00000052802	ENSG00000109472
"PPID"	"FNIP2"	"TMEM192"	"MSM01"	"CPE"
ENSG00000196104	ENSG00000109511	ENSG00000137628	ENSG00000154447	ENSG00000137601
"SPOCK3"	"ANXA10"	"DDX60"	"SH3RF1"	"NEK1"
ENSG00000109572	ENSG00000056050	ENSG00000109576	ENSG00000109586	ENSG00000164104
"CLCN3"	"HPF1"	"AADAT"	"GALNT7"	"HMG2"
ENSG00000150628	ENSG00000164122	ENSG00000150630	ENSG00000109674	ENSG00000218336
"SPATA4"	"ASB5"	"VEGFC"	"NEIL3"	"TENM3"
ENSG00000151718	ENSG00000168556	ENSG00000182552	ENSG00000173320	ENSG00000164305
"WWC2"	"ING2"	"RWDD4"	"STOX2"	"CASP3"
ENSG00000164306	ENSG00000151725	ENSG00000151726	ENSG00000151729	ENSG00000164323
"PRIMPOL"	"CENPU"	"ACSL1"	"SLC25A4"	"CFAP97"
ENSG00000109775	ENSG00000168491	ENSG00000154553	ENSG00000164342	ENSG00000145476
"UFSP2"	"CCDC110"	"PDLIM3"	"TLR3"	"CYP4V2"
ENSG00000083857	ENSG00000073578	ENSG00000249915	ENSG00000063438	ENSG00000066230
"FAT1"	"SDHA"	"PDCD6"	"AHRR"	"SLC9A3"
ENSG00000028310	ENSG00000071539	ENSG00000145506	ENSG00000113504	ENSG00000049656
"BRD9"	"TRIP13"	"NKD2"	"SLC12A7"	"CLPTM1L"
ENSG00000153395	ENSG00000171421	ENSG00000186493	ENSG00000164151	ENSG00000133398
"LPCAT1"	"MRPL36"	NA	"ICE1"	"MED10"
ENSG00000037474	ENSG00000145545	ENSG00000112941	ENSG00000124275	ENSG00000112902

"NSUN2"	"SRD5A1"	"TENT4A"	"MTRR"	"SEMA5A"
ENSG000000150753	ENSG000000164237	ENSG000000112977	ENSG000000039139	ENSG000000038382
"CCT5"	"CMBL"	"DAP"	"DNAH5"	"TRIO"
ENSG000000145569	ENSG000000154122	ENSG000000173545	ENSG000000145555	ENSG000000113361
"OTULINL"	"ANKH"	"ZNF622"	"MYO10"	"CDH6"
ENSG000000113360	ENSG000000133401	ENSG000000113384	ENSG000000056097	ENSG000000113387
"DROSHA"	"PDZD2"	"GOLPH3"	"ZFR"	"SUB1"
ENSG000000113389	ENSG000000113407	ENSG000000151388	ENSG000000039560	ENSG000000168724
"NPR3"	"TARS1"	"ADAMTS12"	"RAI14"	"DNAJC21"
ENSG000000113494	ENSG000000152582	ENSG000000168685	ENSG000000164187	ENSG000000145604
"PRLR"	"SPEF2"	"IL7R"	"LMBRD2"	"SKP2"
ENSG000000164190	ENSG000000197603	ENSG000000113569	ENSG000000168621	ENSG000000113594
"NIPBL"	"CPLANE1"	"NUP155"	"GDNF"	"LIFR"
ENSG000000145623	ENSG000000164327	ENSG000000153071	ENSG000000171522	ENSG000000132356
"OSMR"	"RICKTOR"	"DAB2"	"PTGER4"	"PRKAA1"
ENSG000000145592	ENSG000000112936	ENSG000000083720	ENSG000000205765	ENSG000000112964
"RPL37"	"C7"	"OXCT1"	"RIMOC1"	"GHR"
ENSG000000177453	ENSG000000112972	ENSG000000151881	ENSG000000172244	ENSG000000172239
"NIM1K"	"HMGCS1"	"TMEM267"	"C5orf34"	"PAIP1"
ENSG000000112992	ENSG000000170571	ENSG000000213949	ENSG000000164171	ENSG000000134363
"NNT"	"EMB"	"ITGA1"	"ITGA2"	"FST"
ENSG000000185305	ENSG000000178996	ENSG000000164283	ENSG000000164294	ENSG000000067248
"ARL15"	"SNX18"	"ESM1"	"GPX8"	"DHX29"
ENSG000000067113	ENSG000000177058	ENSG000000164509	ENSG000000134352	ENSG000000164512
"PLPP1"	"SLC38A9"	"IL31RA"	"IL6ST"	"ANKRD55"
ENSG000000155545	ENSG000000062194	ENSG000000169067	ENSG000000145632	ENSG000000035499
"MIER3"	"GPBP1"	"ACTBL2"	"PLK2"	"DEPDC1B"
ENSG000000049167	ENSG000000164182	ENSG000000188725	ENSG000000130449	ENSG000000068796
"ERCC8"	"NDUFAF2"	"SMIM15"	"ZSWIM6"	"KIF2A"
ENSG000000086189	ENSG000000086200	ENSG000000153006	ENSG000000049192	ENSG000000123219
"DITM1"	"IPO11"	"SREK1IP1"	"ADAMTS6"	"CENPK"
ENSG000000113595	ENSG000000197860	ENSG000000123213	ENSG000000069020	ENSG000000145675
"TRIM23"	"SGTB"	"NLN"	"MAST4"	"PIK3R1"
ENSG000000145740	ENSG000000134057	ENSG000000153044	ENSG000000134056	ENSG000000273841
"SLC30A5"	"CCNB1"	"CENPH"	"KGD4"	"TAF9"
ENSG000000152939	ENSG000000205572	ENSG000000172062	ENSG000000145734	ENSG000000131711
"MARVELD2"	"SERF1A"	"SMN1"	"BDP1"	"MAP1B"
ENSG000000113048	ENSG000000049883	ENSG000000083312	ENSG000000157107	ENSG000000157111
"MRPS27"	"PTCD2"	"TNPO1"	"FCHO2"	"TMEM171"
ENSG000000164331	ENSG000000214944	ENSG000000171617	ENSG000000049860	ENSG000000164347
"ANKRA2"	"ARHGEF28"	"ENC1"	"HEXB"	"GFM2"
ENSG000000113161	ENSG000000113163	ENSG000000145703	ENSG000000164220	ENSG000000181104
"HMGCR"	"CERT1"	"IQGAP2"	"F2RL2"	"F2R"

ENSG00000164251	ENSG00000132846	ENSG00000171530	ENSG00000132842	ENSG00000085365
"F2RL1"	"ZBED3"	"TBCA"	"AP3B1"	"SCAMP1"
ENSG00000145685	ENSG00000152409	ENSG00000152413	ENSG00000164329	ENSG00000177034
"LHFPL2"	"JMY"	"HOMER1"	"TENT2"	"MTX3"
ENSG00000164300	ENSG00000039319	ENSG00000228716	ENSG00000113318	ENSG00000113319
"SERINC5"	"ZFYVE16"	"DHFR"	"MSH3"	"RASGRF2"
ENSG00000145687	ENSG00000152348	ENSG00000174695	ENSG00000038427	ENSG00000164176
"SSBP2"	"ATG10"	"TMEM167A"	"VCAN"	"EDIL3"
ENSG00000145715	ENSG00000164180	ENSG00000081189	ENSG00000153140	ENSG00000176055
"RASA1"	"TMEM161B"	"MEF2C"	"CETN3"	"MBLAC2"
ENSG00000113356	ENSG00000176018	ENSG00000113369	ENSG00000175745	ENSG00000133302
"POLR3G"	"LYSMD3"	"ARRDC3"	"NR2F1"	"SLF1"
ENSG00000175471	ENSG00000164291	ENSG00000164292	ENSG00000173221	ENSG00000118985
"MCTP1"	"ARSK"	"RHOTB3"	"GLRX"	"ELL2"
ENSG00000153113	ENSG00000113441	ENSG00000058729	ENSG00000174136	ENSG00000153922
"CAST"	"LNPEP"	"RIOK2"	"RGM"	"CHD1"
ENSG00000174132	ENSG00000145730	ENSG00000181751	ENSG00000112874	ENSG00000184349
"FAM174A"	"PAM"	"MACIR"	"NUDT12"	"EFNA5"
ENSG00000145743	ENSG00000198961	ENSG00000112893	ENSG00000164209	ENSG00000145777
"FBXL17"	"PJA2"	"MAN2A1"	"SLC25A46"	"TSLP"
ENSG00000134987	ENSG00000152495	ENSG00000164211	ENSG00000134986	ENSG00000134982
"WDR36"	"CAMK4"	"STARD4"	"NREP"	"APC"
ENSG00000129625	ENSG00000172795	ENSG00000171444	ENSG00000164219	ENSG00000145780
"REEP5"	"DCP2"	"MCC"	"PGGT1B"	"FEM1C"
ENSG00000134970	ENSG00000145782	ENSG00000177879	ENSG00000145781	ENSG00000092421
"TMED7"	"ATG12"	"AP3S1"	"COMMD10"	"SEMA6A"
ENSG00000145779	ENSG00000133835	ENSG00000184838	ENSG00000113083	ENSG00000205302
"TNFAIP8"	"HSD17B4"	"PRR16"	"LOX"	"SNX2"
ENSG00000064652	ENSG00000061455	ENSG00000168944	ENSG00000151292	ENSG00000168916
"SNX24"	"PRDM6"	"CEP120"	"CSNK1G3"	"ZNF608"
ENSG00000155324	ENSG00000164904	ENSG00000164902	ENSG00000113368	ENSG00000173926
"GRAMD2B"	"ALDH7A1"	"PHAX"	"LMNB1"	"MARCHF3"
ENSG00000164244	ENSG00000064651	ENSG00000138829	ENSG00000113396	ENSG00000145808
"PRRC1"	"SLC12A2"	"FBN2"	"SLC27A6"	"ADAMTS19"
ENSG00000198108	ENSG00000169567	ENSG00000186687	ENSG00000158985	ENSG00000217128
"CHSY3"	"HINT1"	"LYRM7"	"CDC42SE2"	"FNIP1"
ENSG00000131435	ENSG00000197208	ENSG00000197375	ENSG00000197536	ENSG00000125347
"PDLIM4"	"SLC22A4"	"SLC22A5"	NA	"IRF1"
ENSG00000113522	ENSG00000131437	ENSG00000164402	ENSG00000155329	ENSG00000170606
"RAD50"	"KIF3A"	"SEPTIN8"	"ZCCHC10"	"HSPA4"
ENSG00000113583	ENSG00000213585	ENSG00000081059	ENSG00000113558	ENSG00000113575
"C5orf15"	"VDAC1"	"TCF7"	"SKP1"	"PPP2CA"
ENSG00000119048	ENSG00000237190	ENSG00000164615	ENSG00000145833	ENSG00000181904

"UBE2B"	"CDKN2AIPNL"	"CAMLG"	"DDX46"	"C5orf24"
ENSG00000113621	ENSG00000069011	ENSG00000113648	ENSG00000120708	ENSG00000152377
"TXNDC15"	"PITX1"	"MACROH2A1"	"TGFB1"	"SPOCK1"
ENSG00000177733	ENSG00000031003	ENSG00000112984	ENSG00000094880	ENSG00000158402
"HNRNPA0"	"FAM13B"	"KIF20A"	"CDC23"	"CDC25C"
ENSG00000120709	ENSG00000132563	ENSG00000120738	ENSG00000120705	ENSG00000113013
"FAM53C"	"REEP2"	"EGR1"	"ETF1"	"HSPA9"
ENSG00000044115	ENSG00000170464	ENSG00000184584	ENSG00000171604	ENSG00000185129
"CTNNA1"	"DNAJC18"	"STING1"	"CXXC5"	"PURA"
ENSG00000182700	ENSG00000120306	ENSG00000113068	ENSG00000113070	ENSG00000176087
"IGIP"	"CYSTM1"	"PFDN1"	"HBEGF"	"SLC35A4"
ENSG00000113119	ENSG00000113141	ENSG00000170445	ENSG00000146007	ENSG00000204967
"TMC06"	"IK"	"HARS1"	"ZMAT2"	"PCDHA4"
ENSG00000204963	ENSG00000112852	ENSG00000113205	ENSG00000113209	ENSG00000113212
"PCDHA7"	"PCDHB2"	"PCDHB3"	"PCDHB5"	"PCDHB7"
ENSG00000120322	ENSG00000272674	ENSG00000177839	ENSG00000120324	ENSG00000197479
"PCDHB8"	"PCDHB16"	"PCDHB9"	"PCDHB10"	"PCDHB11"
ENSG00000120328	ENSG00000187372	ENSG00000120327	ENSG00000113248	ENSG00000178913
"PCDHB12"	"PCDHB13"	"PCDHB14"	"PCDHB15"	"TAF7"
ENSG00000204956	ENSG00000081853	ENSG00000254245	ENSG00000254221	ENSG00000262576
"PCDHGA1"	"PCDHGA2"	"PCDHGA3"	"PCDHGB1"	"PCDHGA4"
ENSG00000253910	ENSG00000253485	ENSG00000262209	ENSG00000253731	ENSG00000253537
"PCDHGB2"	"PCDHGA5"	"PCDHGB3"	"PCDHGA6"	"PCDHGA7"
ENSG00000253953	ENSG00000276547	ENSG00000253305	ENSG00000253846	ENSG00000254122
"PCDHGB4"	"PCDHGB5"	"PCDHGB6"	"PCDHGA10"	"PCDHGB7"
ENSG00000240184	ENSG00000240764	ENSG00000131504	ENSG00000197948	ENSG00000013561
"PCDHGC3"	"PCDHGC5"	"DIAPH1"	"FCHSD1"	"RNF14"
ENSG00000113552	ENSG00000131507	ENSG00000187678	ENSG00000113578	ENSG00000113580
"GNPDA1"	"NDFIP1"	"SPRY4"	"FGF1"	"NR3C1"
ENSG00000183775	ENSG00000186314	ENSG00000156463	ENSG00000133706	ENSG00000091009
"KCTD16"	"PRELID2"	"SH3RF2"	"LARS1"	"RBM27"
ENSG00000113649	ENSG00000113657	ENSG00000145868	ENSG00000169252	ENSG00000169247
"TCERG1"	"DPYSL3"	"FBX038"	"ADRB2"	"SH3TC2"
ENSG00000173210	ENSG00000157510	ENSG00000164284	ENSG00000145882	ENSG00000113712
"ABLM3"	"AFAP1L1"	"GRPEL2"	"PCYOX1L"	"CSNK1A1"
ENSG00000155846	ENSG00000155850	ENSG00000113716	ENSG00000113721	ENSG00000183876
"PPARGC1B"	"SLC26A2"	"HMGXB3"	"PDGFRB"	"ARSI"
ENSG00000070814	ENSG00000164587	ENSG00000070614	ENSG00000171992	ENSG00000132912
"TCOF1"	"RPS14"	"NDST1"	"SYNP0"	"DCTN4"
ENSG00000256235	ENSG00000211445	ENSG00000145901	ENSG00000197043	ENSG00000198624
"SMIM3"	"GPX3"	"TNIP1"	"ANXA6"	"CCDC69"
ENSG00000123643	ENSG00000177556	ENSG00000145907	ENSG00000155511	ENSG00000055147
"SLC36A1"	"ATOX1"	"G3BP1"	"GRIA1"	"FAM114A2"

ENSG00000037749	ENSG000000164576	ENSG000000170271	ENSG000000155508	ENSG000000082516
"MFAP3"	"SAP30L"	"FAXDC2"	"CNOT8"	"GEMIN5"
ENSG000000170624	ENSG000000055163	ENSG000000135074	ENSG000000172548	ENSG000000155858
"SGCD"	"CYFIP2"	"ADAM19"	"NIPAL4"	"LSM11"
ENSG000000113282	ENSG000000164330	ENSG000000145860	ENSG000000164332	ENSG000000170214
"CLINT1"	"EBF1"	"RNF145"	"UBLCP1"	"ADRA1B"
ENSG000000113312	ENSG000000170234	ENSG000000135083	ENSG000000145861	ENSG000000221886
"TTC1"	"PWWP2A"	"CCNJL"	"C1QTNF2"	"FAM200C"
ENSG000000164609	ENSG000000164611	ENSG000000113328	ENSG000000072571	ENSG000000038274
"SLU7"	"PTTG1"	"CCNG1"	"HMMR"	"MAT2B"
ENSG000000113645	ENSG000000113643	ENSG000000120137	ENSG000000184347	ENSG000000040275
"WWC1"	"RARS1"	"PANK3"	"SLIT3"	"SPDL1"
ENSG000000204767	ENSG000000181163	ENSG000000072803	ENSG000000072786	ENSG000000214357
"INSYN2B"	"NPM1"	"FBXW11"	"STK10"	"NEURL1B"
ENSG000000120129	ENSG000000113719	ENSG000000113732	ENSG000000164463	ENSG000000113734
"DUSP1"	"ERGIC1"	"ATP6V0E1"	"CREBRF"	"BNIP1"
ENSG000000145919	ENSG000000113742	ENSG000000120149	ENSG000000184845	ENSG000000164466
"BOD1"	"CPEB4"	"MSX2"	"DRD1"	"SFXN1"
ENSG000000051596	ENSG000000170085	ENSG000000122203	ENSG000000175414	ENSG000000146066
"THOC3"	"SIMC1"	"KIAA1191"	"ARL10"	"HIGD2A"
ENSG000000175416	ENSG000000113194	ENSG000000146083	ENSG000000074317	ENSG000000087206
"CLTB"	"FAF2"	"RNF44"	"SNCB"	"UIMC1"
ENSG000000113761	ENSG000000165671	ENSG000000169228	ENSG000000213347	ENSG000000169230
"ZNF346"	"NSD1"	"RAB24"	"MXD3"	"PRELID1"
ENSG000000169223	ENSG000000198055	ENSG000000196923	ENSG000000027847	ENSG000000145916
"LMAN2"	"GRK6"	"PDLIM7"	"B4GALT7"	"RMND5B"
ENSG000000197451	ENSG000000113240	ENSG000000169131	ENSG000000178338	ENSG000000178187
"HNRNPAB"	"CLK4"	"ZNF354A"	"ZNF354B"	"ZNF454"
ENSG000000177932	ENSG000000087116	ENSG000000176783	ENSG000000169045	ENSG000000127022
"ZNF354C"	"ADAMTS2"	"RUFY1"	"HNRNPH1"	"CANX"
ENSG000000161021	ENSG000000161013	ENSG000000161011	ENSG000000161010	ENSG000000197226
"MAML1"	"MGAT4B"	"SQSTM1"	"MRNIP"	"TBC1D9B"
ENSG000000131459	ENSG000000113300	ENSG000000146063	ENSG000000204628	ENSG000000112685
"GFPT2"	"CNOT6"	"TRIM41"	"RACK1"	"EXOC2"
ENSG000000164379	ENSG000000137273	ENSG000000054598	ENSG000000112699	ENSG000000124535
"FOXQ1"	"FOXF2"	"FOXC1"	"GMDS"	"WRNIP1"
ENSG000000021355	ENSG000000124588	ENSG000000137274	ENSG000000137267	ENSG000000137285
"SERPINB1"	"NQO2"	"BPHL"	"TUBB2A"	"TUBB2B"
ENSG000000137266	ENSG000000168994	ENSG000000145945	ENSG000000112739	ENSG000000198721
"SLC22A23"	"PXDC1"	"FAM50B"	"PRP4K"	"ECI2"
ENSG000000153046	ENSG000000214113	ENSG000000124783	ENSG000000096696	ENSG000000239264
"CDYL"	"LYRM4"	"SSR1"	"DSP"	"TXNDC5"
ENSG000000124786	ENSG000000137203	ENSG000000111846	ENSG000000111843	ENSG000000137210

"SLC35B3"	"TFAP2A"	"GCNT2"	"TMEM14C"	"TMEM14B"
ENSG00000197977	ENSG00000224531	ENSG00000111859	ENSG00000145979	ENSG00000145990
"ELOVL2"	"SMIM13"	"NEDD9"	"TBC1D7"	"GFOD1"
ENSG00000124523	ENSG00000225921	ENSG00000010017	ENSG00000050393	ENSG00000180537
"SIRT5"	"NOL7"	"RANBP9"	"MCUR1"	"RNF182"
ENSG00000112149	ENSG00000008083	ENSG00000137198	ENSG00000124788	ENSG00000112186
"CD83"	"JARID2"	"GMPR"	"ATXN1"	"CAP2"
ENSG00000137414	ENSG00000137364	ENSG00000165097	ENSG00000124795	ENSG00000137393
"FAM8A1"	"TPMT"	"KDM1B"	"DEK"	"RNF144B"
ENSG00000172201	ENSG00000172197	ENSG00000145996	ENSG00000124766	ENSG00000124532
"ID4"	"MBOAT1"	"CDKAL1"	"SOX4"	"MRS2"
ENSG00000112294	ENSG00000111802	ENSG00000112308	ENSG00000112312	ENSG00000112343
"ALDH5A1"	"TDP2"	"C6orf62"	"GMNN"	"TRIM38"
ENSG00000010704	ENSG00000180573	ENSG00000158373	ENSG00000273802	ENSG00000275713
"HFE"	"H2AC6"	"H2BC5"	"H2BC8"	"H2BC9"
ENSG00000158406	ENSG00000186470	ENSG00000124508	ENSG00000226950	ENSG00000111801
"H4C8"	"BTN3A2"	"BTN2A2"	"BTN3A1"	"BTN3A3"
ENSG00000112763	ENSG00000182952	ENSG00000181315	ENSG00000124635	ENSG00000096654
"BTN2A1"	"HMGN4"	"ZNF322"	"H2BC11"	"ZNF184"
ENSG00000198315	ENSG00000137185	ENSG00000137338	ENSG00000158691	ENSG00000204713
"ZKSCAN8"	"ZSCAN9"	"PGBD1"	"ZSCAN12"	"TRIM27"
ENSG00000206503	ENSG00000066379	ENSG00000204619	ENSG00000204592	ENSG00000204569
"HLA-A"	"POLR1H"	"PPP1R11"	"HLA-E"	"PPP1R10"
ENSG00000137343	ENSG00000146112	ENSG00000137404	ENSG00000137337	ENSG00000196230
"ATAT1"	"PPP1R18"	"NRM"	"MDC1"	"TUBB"
ENSG00000137312	ENSG00000137331	ENSG00000204580	ENSG00000204536	ENSG00000137310
"FLOT1"	"IER3"	"DDR1"	"CCHCR1"	"TCF19"
ENSG00000204525	ENSG00000234745	ENSG00000204520	ENSG00000204516	ENSG00000198563
"HLA-C"	"HLA-B"	"MICA"	"MICB"	"DDX39B"
ENSG00000204469	ENSG00000204463	ENSG00000204439	ENSG00000204438	ENSG00000204435
"PRRC2A"	"BAG6"	"C6orf47"	"GPANK1"	"CSNK2B"
ENSG00000204428	ENSG00000204427	ENSG00000213722	ENSG00000213719	ENSG00000204394
"LY6G5C"	"ABHD16A"	"DDAH2"	"CLIC1"	"VARS1"
ENSG00000204389	ENSG00000204388	ENSG00000204387	ENSG00000204386	ENSG00000204371
"HSPA1A"	"HSPA1B"	"SNHG32"	"NEU1"	"EHMT2"
ENSG00000204356	ENSG00000204344	ENSG00000213676	ENSG00000221988	ENSG00000204310
"NELFE"	"STK19"	"ATF6B"	"PPT2"	"AGPAT1"
ENSG00000204308	ENSG00000204304	ENSG00000204267	ENSG00000204264	ENSG00000168394
"RNF5"	"PBX2"	"TAP2"	"PSMB8"	"TAP1"
ENSG00000242574	ENSG00000204257	ENSG00000204256	ENSG00000204231	ENSG00000112473
"HLA-DMB"	"HLA-DMA"	"BRD2"	"RXRB"	"SLC39A7"
ENSG00000204227	ENSG00000231500	ENSG00000227057	ENSG00000237441	ENSG00000231925
"RING1"	"RPS18"	"WDR46"	"RGL2"	"TAPBP"

ENSG00000236104	ENSG00000204209	ENSG00000237649	ENSG00000197283	ENSG00000030110
"ZBTB22"	"DAXX"	"KIFC1"	"SYNGAP1"	"BAK1"
ENSG00000096433	ENSG00000137288	ENSG00000161904	ENSG00000124493	ENSG00000137309
"ITPR3"	"UQCC2"	"LEMD2"	"GRM4"	"HMGA1"
ENSG00000186577	ENSG00000196821	ENSG00000124562	ENSG00000065060	ENSG00000064995
"SMIM29"	"ILRUN"	"SNRPC"	"BLTP3A"	"TAF11"
ENSG00000146197	ENSG00000023892	ENSG00000112039	ENSG00000198755	ENSG00000007866
"SCUBE3"	"DEF6"	"FANCE"	"RPL10A"	"TEAD3"
ENSG00000096060	ENSG00000156711	ENSG00000112078	ENSG00000112081	ENSG00000124762
"FKBP5"	"MAPK13"	"KCTD20"	"SRSF3"	"CDKN1A"
ENSG00000137168	ENSG00000137409	ENSG00000137193	ENSG00000137200	ENSG00000198937
"PPIL1"	"MTCH1"	"PIM1"	"CMTR1"	"CCDC167"
ENSG00000112139	ENSG00000156639	ENSG00000183826	ENSG00000124767	ENSG00000112167
"MDGA1"	"ZFAND3"	"BTBD9"	"GL01"	"SAYS1"
ENSG00000146122	ENSG00000124615	ENSG00000124596	ENSG00000112561	ENSG00000188112
"DAAM2"	"MOC51"	"OARD1"	"TFEB"	"C6orf132"
ENSG00000124496	ENSG00000024048	ENSG00000124659	ENSG00000146223	ENSG00000221821
"TRERF1"	"UBR2"	"TBCC"	"RPL7L1"	"C6orf226"
ENSG00000137161	ENSG00000124587	ENSG00000112640	ENSG00000124702	ENSG00000044090
"CNPY3"	"PEX6"	"PPP2R5D"	"KLHDC3"	"CUL7"
ENSG00000137171	ENSG00000112651	ENSG00000112655	ENSG00000112658	ENSG00000112659
"KLC4"	"MRPL2"	"PTK7"	"SRF"	"CUL9"
ENSG00000171467	ENSG00000124574	ENSG00000204052	ENSG00000137207	ENSG00000124571
"ZNF318"	"ABCC10"	"LRRC73"	"YIPF3"	"XP05"
ENSG00000170734	ENSG00000172432	ENSG00000096080	ENSG00000112715	ENSG00000180992
"POLH"	"GTPBP2"	"MRPS18A"	"VEGFA"	"MRPL14"
ENSG00000137216	ENSG00000112759	ENSG00000096384	ENSG00000157593	ENSG00000124608
"TMEM63B"	"SLC29A1"	"HSP90AB1"	"SLC35B2"	"AARS2"
ENSG00000124813	ENSG00000172348	ENSG00000146072	ENSG00000198087	ENSG00000244694
"RUNX2"	"RCAN2"	"TNFRSF21"	"CD2AP"	"PTCHD4"
ENSG00000031691	ENSG00000112118	ENSG00000096093	ENSG00000065308	ENSG00000096092
"CENPQ"	"MCM3"	"EFHC1"	"TRAM2"	"TMEM14A"
ENSG00000112144	ENSG00000012660	ENSG00000001084	ENSG00000137269	ENSG00000151917
"CILK1"	"ELOVL5"	"GCLC"	"LRRC1"	"BEND6"
ENSG00000112200	ENSG00000112208	ENSG00000146143	ENSG00000112245	ENSG00000135298
"ZNF451"	"BAG2"	"PRIM2"	"PTP4A1"	"ADGRB3"
ENSG00000168216	ENSG00000082269	ENSG00000112305	ENSG00000119900	ENSG00000079841
"LMBRD1"	"FAM135A"	"SMAP1"	"OGFRL1"	"RIMS1"
ENSG00000185760	ENSG00000135297	ENSG00000156508	ENSG00000119899	ENSG00000156535
"KCNQ5"	"MT01"	"EEF1A1"	"SLC17A5"	"CD109"
ENSG00000111799	ENSG00000112695	ENSG00000112697	ENSG00000196586	ENSG00000146243
"COL12A1"	"COX7A2"	"TMEM30A"	"MYO6"	"IRAK1BP1"
ENSG00000146247	ENSG00000118418	ENSG00000135338	ENSG00000118402	ENSG00000112742

"PHIP"	"HMG3"	"LCA5"	"ELOVL4"	"TTK"
ENSG00000083123	ENSG00000112773	ENSG00000146242	ENSG00000083097	ENSG00000013375
"BCKDHB"	"TENT5A"	"TPBG"	"DOP1A"	"PGM3"
ENSG00000013392	ENSG00000065833	ENSG00000146250	ENSG00000065615	ENSG00000135315
"RWDD2A"	"ME1"	"PRSS35"	"CYB5R4"	"CEP162"
ENSG00000135318	ENSG00000135317	ENSG00000188994	ENSG00000146282	ENSG00000135336
"NT5E"	"SNX14"	"ZNF292"	"RARS2"	"ORC3"
ENSG00000135334	ENSG00000111880	ENSG00000146278	ENSG00000146281	ENSG00000198833
"AKIRIN2"	"RNGTT"	"PNRC1"	"PM20D2"	"UBE2J1"
ENSG00000025039	ENSG00000112159	ENSG00000135333	ENSG00000014123	ENSG00000123545
"RRAGD"	"MDN1"	"EPAH7"	"UFL1"	"NDUFA4"
ENSG00000146263	ENSG00000112234	ENSG00000132423	ENSG00000132424	ENSG00000123552
"MMS22L"	"FBXL4"	"COQ3"	"PNISR"	"USP45"
ENSG00000112237	ENSG00000112249	ENSG00000085382	ENSG00000112276	ENSG00000057657
"CCNC"	"ASCC3"	"HACE1"	"POPDC1"	"PRDM1"
ENSG00000112297	ENSG00000130347	ENSG00000130348	ENSG00000178409	ENSG00000112320
"CRYBG1"	"RTN4IP1"	"QRSL1"	"BEND3"	"SOBP"
ENSG00000025796	ENSG00000112335	ENSG00000118689	ENSG00000080546	ENSG00000183137
"SEC63"	"SNX3"	"FOXO3"	"SESN1"	"CEP57L1"
ENSG00000112367	ENSG00000168438	ENSG00000155111	ENSG00000155115	ENSG00000197498
"FIG4"	"CDC40"	"CDK19"	"GTF3C6"	"RPF2"
ENSG00000173214	ENSG00000009413	ENSG00000056972	ENSG00000010810	ENSG00000074935
"MFSD4B"	"REV3L"	"TRAF3IP2"	"FYN"	"TUBE1"
ENSG00000112769	ENSG00000277443	ENSG00000196591	ENSG00000111817	ENSG00000189241
"LAMA4"	"MARCKS"	"HDAC2"	"DSE"	"TSPYL1"
ENSG00000178033	ENSG00000111832	ENSG00000153975	ENSG00000196911	ENSG00000183807
"CALHM5"	"RWDD1"	"ZUP1"	"KPNA5"	"FAM162B"
ENSG00000164465	ENSG00000047932	ENSG00000153989	ENSG00000196376	ENSG00000111860
"DCBLD1"	"GOPC"	"NUS1"	"SLC35F1"	"CEP85L"
ENSG00000198523	ENSG00000111875	ENSG00000111885	ENSG00000152661	ENSG00000111897
"PLN"	"ASF1A"	"MAN1A1"	"GJA1"	"SERINC1"
ENSG00000172594	ENSG00000146373	ENSG00000111907	ENSG00000111906	ENSG00000111912
"SMPDL3A"	"RNF217"	"TPD52L1"	"HDDC2"	"NCOA7"
ENSG00000111911	ENSG00000203760	ENSG00000146374	ENSG00000118518	ENSG00000093144
"HINT3"	"CENPW"	"RSP03"	"RNF146"	"ECHDC1"
ENSG00000152894	ENSG00000196569	ENSG00000146376	ENSG00000198945	ENSG00000164484
"PTPRK"	"LAMA2"	"ARHGAP18"	"L3MBTL3"	"TMEM200A"
ENSG00000079819	ENSG00000112282	ENSG00000197594	ENSG00000118523	ENSG00000079931
"EPB41L2"	"MED23"	"ENPP1"	"CCN2"	"MOXD1"
ENSG00000112306	ENSG00000112319	ENSG00000118526	ENSG0000028839	ENSG00000146411
"RPS12"	"EYA4"	"TCF21"	"TBPL1"	"SLC2A12"
ENSG00000118515	ENSG00000118514	ENSG00000112339	ENSG00000135541	ENSG00000146410
"SGK1"	"ALDH8A1"	"HBS1L"	"AHI1"	"MTFR2"

ENSG00000029363	ENSG00000135525	ENSG00000197442	ENSG00000118503	ENSG00000112378
"BCLAF1"	"MAP7"	"MAP3K5"	"TNFAIP3"	"PERP"
ENSG00000024862	ENSG00000146386	ENSG00000112406	ENSG00000009844	ENSG00000112414
"CCDC28A"	"ABRACL"	"HECA"	"VTA1"	"ADGRG6"
ENSG00000010818	ENSG00000146416	ENSG00000034693	ENSG00000001036	ENSG00000112419
"HIVEP2"	"AIG1"	"PEX3"	"FUCA2"	"PHACTR2"
ENSG00000118495	ENSG00000152818	ENSG00000118496	ENSG00000146414	ENSG00000164506
"PLAGL1"	"UTRN"	"FBX030"	"SHPRH"	"STXBP5"
ENSG000000203727	ENSG00000055208	ENSG00000186625	ENSG00000120253	ENSG00000120265
"SAMD5"	"TAB2"	"KATNA1"	"NUP43"	"PCMT1"
ENSG00000120256	ENSG000000203722	ENSG00000131015	ENSG00000111981	ENSG00000120278
"LRP11"	"RAET1G"	"ULBP2"	"ULBP1"	"PLEKHG1"
ENSG00000120254	ENSG00000131016	ENSG00000181472	ENSG00000146476	ENSG00000131018
"MTHFD1L"	"AKAP12"	"ZBTB2"	"ARMT1"	"SYNE1"
ENSG00000120279	ENSG00000112029	ENSG00000112031	ENSG00000091844	ENSG00000153721
"MYCT1"	"FBX05"	"MTRF1L"	"RGS17"	"CNKSR3"
ENSG000000213079	ENSG00000029639	ENSG00000049618	ENSG000000215712	ENSG00000130340
"SCAF8"	"TFB1M"	"ARID1B"	"TMEM242"	"SNX9"
ENSG00000078269	ENSG00000122335	ENSG00000146433	ENSG00000146425	ENSG00000092820
"SYNJ2"	"SERAC1"	"TMEM181"	"DYNLT1"	"EZR"
ENSG00000112096	ENSG00000120437	ENSG00000120438	ENSG00000197081	ENSG00000085511
NA	"ACAT2"	"TCP1"	"IGF2R"	"MAP3K4"
ENSG00000026652	ENSG00000112531	ENSG00000112541	ENSG00000198818	ENSG00000071242
"AGPAT4"	"QKI"	"PDE10A"	"SFT2D1"	"RPS6KA2"
ENSG00000130396	ENSG00000184465	ENSG00000185127	ENSG00000130024	ENSG00000198719
"AFDN"	"WDR27"	"C6orf120"	"PHF10"	"DLL1"
ENSG00000112584	ENSG00000177706	ENSG00000197461	ENSG00000188191	ENSG00000164828
"FAM120B"	"FAM20C"	"PDGFA"	"PRKAR1B"	"SUN1"
ENSG00000105963	ENSG00000146540	ENSG00000164850	ENSG00000178381	ENSG00000164877
"ADAP1"	"C7orf50"	"GPER1"	"ZFAND2A"	"MICALL2"
ENSG00000198517	ENSG000000225968	ENSG00000106268	ENSG00000106266	ENSG00000106263
"MAFK"	"ELFN1"	"NUDT1"	"SNX8"	"EIF3B"
ENSG00000136213	ENSG00000106009	ENSG00000106012	ENSG00000136295	ENSG00000174945
"CHST12"	"BRAT1"	"IQCE"	"TTYH3"	"AMZ1"
ENSG00000146535	ENSG00000198286	ENSG00000146555	ENSG00000242802	ENSG00000146587
"GNA12"	"CARD11"	"SDK1"	"AP5Z1"	"RBAK"
ENSG00000157954	ENSG00000164638	ENSG00000182095	ENSG00000075624	ENSG00000075618
"WIPI2"	"SLC29A4"	"TNRC18"	"ACTB"	"FSCN1"
ENSG00000011275	ENSG00000122512	ENSG00000106305	ENSG00000086232	ENSG00000178397
"RNF216"	"PMS2"	"AIMP2"	"EIF2AK1"	"FAM220A"
ENSG00000136238	ENSG00000164535	ENSG00000136247	ENSG00000146576	ENSG00000205903
"RAC1"	"DAGLB"	"ZDHHC4"	"INTS15"	"ZNF316"
ENSG00000164631	ENSG00000106392	ENSG00000164654	ENSG00000106399	ENSG00000106415

"ZNF12"	"C1GALT1"	"MIOS"	"RPA3"	"GLCCI1"
ENSG00000189043	ENSG00000106443	ENSG00000005108	ENSG00000106460	ENSG00000122644
"NDUFA4"	"PHF14"	"THSD7A"	"TMEM106B"	"ARL4A"
ENSG00000006468	ENSG00000106524	ENSG00000106537	ENSG00000106546	ENSG00000071189
"ETV1"	"ANKMY2"	"TSPAN13"	"AHR"	"SNX13"
ENSG00000048052	ENSG00000122691	ENSG00000105849	ENSG00000105855	ENSG00000164649
"HDAC9"	"TWIST1"	"POLR1F"	"ITGB8"	"CDCA7L"
ENSG00000105889	ENSG00000136244	ENSG00000122591	ENSG00000122550	ENSG00000156928
"STEAP1B"	"IL6"	"HYCC1"	"KLHL7"	"MALSU1"
ENSG00000136231	ENSG00000164548	ENSG00000169193	ENSG00000105926	ENSG00000105928
"IGF2BP3"	"TRA2A"	"CCDC126"	"PALS2"	"GSDME"
ENSG00000172115	ENSG00000050344	ENSG00000122566	ENSG00000122565	ENSG00000005020
"CYCS"	"NFE2L3"	"HNRNPA2B1"	"CBX3"	"SKAP2"
ENSG00000105991	ENSG00000105996	ENSG00000105997	ENSG00000197576	ENSG00000106004
"HOXA1"	"HOXA2"	"HOXA3"	"HOXA4"	"HOXA5"
ENSG00000106052	ENSG00000153814	ENSG00000146592	ENSG00000136193	ENSG00000106080
"TAX1BP1"	"JAZF1"	"CREB5"	"SCRN1"	"FKBP14"
ENSG00000106086	ENSG00000180354	ENSG00000106100	ENSG00000106105	ENSG00000240583
"PLEKHA8"	"MTURN"	"NOD1"	"GARS1"	"AQP1"
ENSG00000106355	ENSG00000105778	ENSG00000170852	ENSG00000122642	ENSG00000122643
"LSM5"	"AVL9"	"KBTBD2"	"FKBP9"	"NT5C3A"
ENSG00000122507	ENSG00000164619	ENSG00000173852	ENSG00000122557	ENSG00000122547
"BBS9"	"BMPER"	"DPY19L1"	"HERPUD2"	"EEPDI1"
ENSG00000011426	ENSG00000010270	ENSG00000078053	ENSG00000006715	ENSG00000006451
"ANLN"	"STARD3NL"	"AMPH"	"VPS41"	"RALA"
ENSG00000168303	ENSG00000175600	ENSG00000122641	ENSG00000164543	ENSG00000106603
"MPLKIP"	"SUGCT"	"INHBA"	"STK17A"	"COA1"
ENSG00000106605	ENSG00000136279	ENSG00000106624	ENSG00000106628	ENSG00000015520
"BLVRA"	"DBNL"	"AEBP1"	"POLD2"	"NPC1L1"
ENSG00000136271	ENSG00000158604	ENSG00000105953	ENSG00000122515	ENSG00000196262
"DDX56"	"TMED4"	"OGDH"	"ZMIZ2"	"PIA1"
ENSG00000105968	ENSG00000146676	ENSG00000136274	ENSG00000146674	ENSG00000136205
"H2AZ2"	"PURB"	"NACAD"	"IGFBP3"	"TNS3"
ENSG00000136273	ENSG00000158683	ENSG00000183696	ENSG00000132436	ENSG00000106070
"HUS1"	"PKD1L1"	"UPP1"	"FIGNL1"	"GRB10"
ENSG00000146648	ENSG00000178665	ENSG00000146729	ENSG00000239789	ENSG00000146733
"EGFR"	"ZNF713"	"NIPSNAP2"	"MRPS17"	"PSPH"
ENSG00000146731	ENSG00000129103	ENSG00000106153	ENSG00000234444	ENSG00000173041
"CCT6A"	"SUMF2"	"CHCHD2"	"ZNF736"	"ZNF680"
ENSG00000152926	ENSG00000213462	ENSG00000146757	ENSG00000196715	ENSG00000126522
"ZNF117"	"ERV3-1"	"ZNF92"	"VKORC1L1"	"ASL"
ENSG00000241258	ENSG00000169902	ENSG00000126524	ENSG00000196313	ENSG00000009954
"CRCP"	"TPST1"	"SBDS"	"POM121"	"BAZ1B"

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"BUD23"	"ABHD11"	"CLDN4"	"METTL27"	"ELN"
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"RFC2"	"CLIP2"	"GTF2I"	"POM121C"	"HIP1"
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"RHBDD2"	"POR"	"STYXL1"	"MDH2"	"SRRM3"
ENSG00000106211	ENSG00000170027	ENSG00000188372	ENSG00000091073	ENSG00000135205
"HSPB1"	"YWHAG"	"ZP3"	"DTX2"	"CCDC146"
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"FGL2"	"GSAP"	"PTPN12"	"TMEM60"	"MAGI2"
ENSG00000127955	ENSG00000135218	ENSG00000075223	ENSG00000019991	ENSG00000075213
"GNAI1"	"CD36"	"SEMA3C"	"HGF"	"SEMA3A"
ENSG00000153993	ENSG00000135185	ENSG00000005469	ENSG00000085563	ENSG00000006634
"SEMA3D"	"TMEM243"	"CROT"	"ABCB1"	"DBF4"
ENSG00000075142	ENSG00000164647	ENSG00000105792	ENSG00000157224	ENSG00000157240
"SRI"	"STEAP1"	"CFAP69"	"CLDN12"	"FZD1"
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"AKAP9"	"PEX1"	"RBM48"	"CDK6"	"VPS50"
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"TFPI2"	"GNG11"	"BET1"	"COL1A2"	"CASD1"
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"SGCE"	"PEG10"	"PON2"	"PDK4"	"DYNC1I1"
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"SLC25A13"	"SEM1"	"ASNS"	"LMTK2"	"TECPR1"
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"BRI3"	"BAIAP2L1"	"TMEM130"	"TRRAP"	"SMURF1"
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"ARPC1A"	"PDAP1"	"CPSF4"	"ATP5MF"	"ZNF394"
ENSG00000221909	ENSG00000197037	ENSG00000146833	ENSG00000166526	ENSG00000168090
"FAM200A"	"ZSCAN25"	"TRIM4"	"ZNF3"	"COPS6"
ENSG00000166508	ENSG00000166997	ENSG00000214309	ENSG00000146826	ENSG00000213420
"MCM7"	"CNPY4"	"MBLAC1"	"TRAPPC14"	"GPC2"
ENSG00000146834	ENSG00000166925	ENSG00000106351	ENSG00000077454	ENSG00000106333
"MEPCE"	"TSC22D4"	"AGFG2"	"LRCH4"	"PCOLCE"
ENSG00000106330	ENSG00000146830	ENSG00000196411	ENSG00000087077	ENSG00000087087
"MOSPD3"	"GIGYF1"	"EPHB4"	"TRIP6"	"SRRT"
ENSG00000087085	ENSG00000169871	ENSG00000106366	ENSG00000128564	ENSG00000106397
"ACHE"	"TRIM56"	"SERPINE1"	"VGF"	"PLOD3"
ENSG00000106400	ENSG00000257923	ENSG00000160999	ENSG00000160991	ENSG00000161036
"ZNHIT1"	"CUX1"	"SH2B2"	"ORAI2"	"LRWD1"
ENSG00000128606	ENSG00000170632	ENSG00000161048	ENSG00000161057	ENSG00000189056
"LRRC17"	"ARMC10"	"NAPEPLD"	"PSMC2"	"RELN"
ENSG00000164815	ENSG00000005483	ENSG00000135250	ENSG00000135249	ENSG00000146776

"ORC5"	"KMT2E"	"SRPK2"	"RINT1"	"ATXN7L1"
ENSG00000008282	ENSG00000105835	ENSG00000253276	ENSG00000005249	ENSG00000105856
"SYPL1"	"NAMPT"	"CCDC71L"	"PRKAR2B"	"HBP1"
ENSG00000164597	ENSG00000105879	ENSG00000091140	ENSG00000091136	ENSG00000135241
"COG5"	"CBL1"	"DLD"	"LAMB1"	"PNPLA8"
ENSG00000177683	ENSG00000128590	ENSG00000173114	ENSG00000128512	ENSG00000198839
"THAP5"	"DNAJB9"	"LRRN3"	"DOCK4"	"ZNF277"
ENSG00000146802	ENSG00000164603	ENSG00000135272	ENSG00000135269	ENSG00000105971
"TMEM168"	"SAMTOR"	"MDFIC"	"TES"	"CAV2"
ENSG00000105974	ENSG00000105976	ENSG00000198898	ENSG00000105989	ENSG00000077063
"CAV1"	"MET"	"CAPZA2"	"WNT2"	"CTTNBP2"
ENSG00000128534	ENSG00000184408	ENSG00000106025	ENSG00000106034	ENSG00000002745
"LSM8"	"KCND2"	"TSPAN12"	"CPED1"	"WNT16"
ENSG00000128609	ENSG00000106299	ENSG00000170775	ENSG00000128513	ENSG00000004059
"NDUFA5"	"WASL"	"GPR37"	"POT1"	"ARF5"
ENSG00000197157	ENSG00000106348	ENSG00000165055	ENSG00000128595	ENSG00000128596
"SND1"	"IMPDH1"	"METTL2B"	"CALU"	"CCDC136"
ENSG00000128591	ENSG00000128524	ENSG00000128602	ENSG00000158467	ENSG00000128578
"FLNC"	"ATP6V1F"	"SMO"	"AHCYL2"	"STRIP2"
ENSG00000186591	ENSG00000091732	ENSG00000128607	ENSG00000128510	ENSG00000106477
"UBE2H"	"ZC3HC1"	"KLHDC10"	"CPA4"	"CEP41"
ENSG00000106484	ENSG00000128585	ENSG00000106554	ENSG00000131558	ENSG00000205060
"MEST"	"MKLN1"	"CHCHD3"	"EXOC4"	"SLC35B4"
ENSG00000085662	ENSG00000198074	ENSG00000172331	ENSG00000122786	ENSG00000146859
"AKR1B1"	"AKR1B10"	"BPGM"	"CALD1"	"TMEM140"
ENSG00000155561	ENSG00000189320	ENSG00000105887	ENSG00000181072	ENSG00000105894
"NUP205"	"FAM180A"	"MTPN"	"CHRM2"	"PTN"
ENSG00000157680	ENSG00000182158	ENSG00000122779	ENSG00000122778	ENSG00000146858
"DGKI"	"CREB3L2"	"TRIM24"	"KIAA1549"	"ZC3HAV1L"
ENSG00000105939	ENSG00000105948	ENSG00000157741	ENSG00000146963	ENSG00000064393
"ZC3HAV1"	"IFT56"	"UBN2"	"LUC7L2"	"HIPK2"
ENSG00000059377	ENSG00000059378	ENSG0000006459	ENSG00000133606	ENSG00000133597
"TBXAS1"	"PARP12"	"KDM7A"	"MKRN1"	"ADCK2"
ENSG00000006530	ENSG00000106028	ENSG00000159784	ENSG00000159840	ENSG00000170379
"AGK"	"SSBP1"	"FAM131B"	"ZYG"	"TCAF2"
ENSG00000055130	ENSG00000106462	ENSG00000155660	ENSG00000170265	ENSG00000170260
"CUL1"	"EZH2"	"PDIA4"	"ZNF282"	"ZNF212"
ENSG00000204946	ENSG00000196453	ENSG00000106479	ENSG00000171130	ENSG00000214022
"ZNF783"	"ZNF777"	"ZNF862"	"ATP6VOE2"	"REPIN1"
ENSG00000055118	ENSG00000197150	ENSG00000164885	ENSG00000164889	ENSG00000164896
"KCNH2"	"ABCB8"	"CDK5"	"SLC4A2"	"FASTK"
ENSG00000133612	ENSG00000033050	ENSG00000033100	ENSG00000082014	ENSG00000013374
"AGAP3"	"ABCF2"	"CHPF2"	"SMARCD3"	"NUB1"

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ENSG00000186480	ENSG00000164690	ENSG00000009335	ENSG00000105993	ENSG00000146918
"INSIG1"	"SHH"	"UBE3C"	"DNAJB6"	"NCAPG2"
ENSG00000117868	ENSG00000182378	ENSG00000185291	ENSG00000169100	ENSG00000169084
"ESYT2"	"PLCXD1"	"IL3RA"	"SLC25A6"	"DHRX"
ENSG00000214717	ENSG00000006756	ENSG00000157399	ENSG00000101825	ENSG00000183943
"ZBED1"	"ARSD"	"ARSL"	"MXRA5"	"PRKX"
ENSG00000130021	ENSG00000101846	ENSG00000006757	ENSG00000101849	ENSG00000146950
"PUDP"	"STS"	"PNPLA4"	"TBL1X"	"SHROOM2"
ENSG00000047644	ENSG00000101871	ENSG00000047648	ENSG00000101911	ENSG00000205542
"WWC3"	"MID1"	"ARHGAP6"	"PRPS2"	"TMSB4X"
ENSG00000123595	ENSG00000196459	ENSG00000046653	ENSG00000181544	ENSG00000130150
"RAB9A"	"TRAPPC2"	"GPM6B"	"FANCB"	"MOSPD2"
ENSG00000169239	ENSG00000182287	ENSG00000126010	ENSG00000047230	ENSG00000102054
"CA5B"	"AP1S2"	"GRPR"	"CTPS2"	"RBBP7"
ENSG00000102098	ENSG00000008086	ENSG00000044446	ENSG00000131828	ENSG00000147010
"SCML2"	"CDKL5"	"PHKA2"	"PDHA1"	"SH3KBP1"
ENSG00000173674	ENSG00000177189	ENSG00000012174	ENSG00000102172	ENSG00000102174
"EIF1AX"	"RPS6KA3"	"MBTPS2"	"SMS"	"PHEX"
ENSG00000123130	ENSG00000130066	ENSG00000184831	ENSG00000130741	ENSG00000101868
"ACOT9"	"SAT1"	"APOO"	"EIF2S3"	"POLA1"
ENSG00000169306	ENSG00000198814	ENSG00000198947	ENSG00000147027	ENSG00000130962
"IL1RAPL1"	"GK"	"DMD"	"TMEM47"	"PRRG1"
ENSG00000165169	ENSG00000147041	ENSG00000101955	ENSG00000156313	ENSG00000165175
"DYNLT3"	"SYTL5"	"SRPX"	"RPGR"	"MID1IP1"
ENSG00000183337	ENSG00000182220	ENSG00000185753	ENSG00000180182	ENSG00000147044
"BCOR"	"ATP6AP2"	"CXorf38"	"MED14"	"CASK"
ENSG00000189221	ENSG00000069509	ENSG00000147050	ENSG00000065923	ENSG00000102221
"MAOA"	"FUNDCl"	"KDM6A"	"SLC9A7"	"JADE3"
ENSG00000182872	ENSG00000130985	ENSG00000102225	ENSG00000102226	ENSG00000197779
"RBM10"	"UBA1"	"CDK16"	"USP11"	"ZNF81"
ENSG00000017483	ENSG00000068438	ENSG00000102317	ENSG00000101940	ENSG00000101945
"SLC38A5"	"FTSJ1"	"RBM3"	"WDR13"	"SUV39H1"
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"HDAC6"	"PQBP1"	"SLC35A2"	"OTUD5"	"KCND1"
ENSG00000147144	ENSG00000243279	ENSG00000196998	ENSG00000068394	ENSG00000102007
"CCDC120"	"PRAF2"	"WDR45"	"GPKOW"	"PLP2"
ENSG00000012211	ENSG00000171365	ENSG00000158352	ENSG00000189369	ENSG00000184194
"PRICKLE3"	"CLCN5"	"SHROOM4"	"GSPT2"	"GPR173"
ENSG00000126012	ENSG00000072501	ENSG00000072506	ENSG00000184083	ENSG00000130119
"KDM5C"	"SMC1A"	"HSD17B10"	"FAM120C"	"GNL3L"
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"MAGEH1"	"RRAGB"	"UBQLN2"	"ZC4H2"	"MSN"
ENSG00000089472	ENSG000000131080	ENSG000000130052	ENSG000000090776	ENSG000000181191
"HEPH"	"EDA2R"	"STARD8"	"EFNB1"	"PJA1"
ENSG000000120509	ENSG000000090889	ENSG000000184481	ENSG000000184634	ENSG000000147130
"PDZD11"	"KIF4A"	"FOXO4"	"MED12"	"ZMYM3"
ENSG000000147140	ENSG000000147166	ENSG000000147162	ENSG000000147174	ENSG000000204131
"NONO"	"ITGB1BP2"	"OGT"	"GCNA"	"NHSL2"
ENSG000000186871	ENSG000000067177	ENSG000000147100	ENSG000000131269	ENSG000000094841
"ERCC6L"	"PHKA1"	"SLC16A2"	"ABCB7"	"UPRT"
ENSG000000085224	ENSG000000102158	ENSG000000165240	ENSG000000102144	ENSG000000187325
"ATRX"	"MAGT1"	"ATP7A"	"PGK1"	"TAF9B"
ENSG000000179300	ENSG000000131171	ENSG000000072133	ENSG000000155008	ENSG000000102271
"RTL3"	"SH3BGR1"	"RPS6KA6"	"APOOL"	"KLHL4"
ENSG000000147202	ENSG000000165194	ENSG000000000003	ENSG000000102359	ENSG000000101811
"DIAPH2"	"PCDH19"	"TSPAN6"	"SRPX2"	"CSTF2"
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"XKRX"	"TRMT2B"	"TMEM35A"	"CENPI"	"GLA"
ENSG000000126945	ENSG000000126947	ENSG000000198960	ENSG000000184867	ENSG000000158164
"HNRNPH2"	"ARMCX1"	"ARMCX6"	"ARMCX2"	"TMSB15A"
ENSG000000158301	ENSG000000180964	ENSG000000182916	ENSG000000185222	ENSG000000166681
"GPRASP2"	"TCEAL8"	"TCEAL7"	"TCEAL9"	"BEX3"
ENSG000000133142	ENSG000000196507	ENSG000000123562	ENSG000000123575	ENSG000000123572
"TCEAL4"	"TCEAL3"	"MORF4L2"	"FAM199X"	"NRK"
ENSG000000157502	ENSG000000133138	ENSG000000133131	ENSG000000089682	ENSG000000147234
"PWWP3B"	"TBC1D8B"	"MORC4"	"RBM41"	"FRMPD3"
ENSG000000147224	ENSG000000157514	ENSG000000101843	ENSG000000101844	ENSG000000197565
"PRPS1"	"TSC22D3"	"PSMD10"	"ATG4A"	"COL4A6"
ENSG000000188153	ENSG000000068366	ENSG000000157600	ENSG000000101935	ENSG000000077264
"COL4A5"	"ACSL4"	"TMEM164"	"AMMECR1"	"PAK3"
ENSG000000072315	ENSG000000126016	ENSG000000123496	ENSG000000130224	ENSG000000102024
"TRPC5"	"AMOT"	"IL13RA2"	"LRCH2"	"PLS3"
ENSG000000003096	ENSG000000131724	ENSG000000174460	ENSG000000101856	ENSG000000077713
"KLHL13"	"IL13RA1"	"ZCCHC12"	"PGRMC1"	"SLC25A43"
ENSG000000005022	ENSG000000077721	ENSG000000186416	ENSG000000125354	ENSG000000198918
"SLC25A5"	"UBE2A"	"NKR1"	"SEPTIN6"	"RPL39"
ENSG000000125351	ENSG000000101882	ENSG000000177485	ENSG000000005893	ENSG000000171155
"UPF3B"	"NKAP"	"ZBTB33"	"LAMP2"	"C1GALT1C1"
ENSG000000125676	ENSG000000101966	ENSG000000101972	ENSG000000009694	ENSG000000188706
"THOC2"	"XIAP"	"STAG2"	"TENM1"	"ZDHC9"
ENSG000000085185	ENSG000000102034	ENSG000000056277	ENSG000000102078	ENSG000000123728
"BCORL1"	"ELF4"	"ZNF280C"	"SLC25A14"	"RAP2C"
ENSG000000076716	ENSG000000156531	ENSG000000165704	ENSG000000156504	ENSG000000101928
"GPC4"	"PHF6"	"HPRT1"	"PABIR2"	"MOSPD1"

ENSG00000184785	ENSG00000212747	ENSG00000134590	ENSG00000203950	ENSG00000186376
"SMIM10"	"RTL8B"	"RTL8C"	"RTL8A"	"ZNF75D"
ENSG00000198689	ENSG00000022267	ENSG00000129680	ENSG00000147274	ENSG00000182195
"SLC9A6"	"FHL1"	"MAP7D3"	"RBMX"	"LDOC1"
ENSG00000102081	ENSG00000010404	ENSG00000269556	ENSG00000013619	ENSG00000063601
"FMR1"	"IDS"	"TMEM185A"	"MAMLD1"	"MTMR1"
ENSG00000160131	ENSG00000147383	ENSG00000182492	ENSG00000262919	ENSG00000130821
"VMA21"	"NSDHL"	"BGN"	"CCNQ"	"SLC6A8"
ENSG00000185825	ENSG00000180879	ENSG00000198910	ENSG00000102032	ENSG00000184216
"BCAP31"	"SSR4"	"L1CAM"	"RENBP"	"IRAK1"
ENSG00000169057	ENSG00000196924	ENSG00000147403	ENSG00000071553	ENSG00000203879
"MECP2"	"FLNA"	"RPL10"	"ATP6AP1"	"GDI1"
ENSG00000071859	ENSG00000130827	ENSG00000196976	ENSG00000102178	ENSG00000126903
"FAM50A"	"PLXNA3"	"LAGE3"	"UBL4A"	"SLC10A3"
ENSG00000071889	ENSG00000160211	ENSG00000160219	ENSG00000130826	ENSG00000130830
"FAM3A"	"G6PD"	"GAB3"	"DKC1"	"MPP1"
ENSG00000185010	ENSG00000165775	ENSG00000155961	ENSG00000185973	ENSG00000147364
"F8"	"FUNDG2"	"RAB39B"	"TMLHE"	"FBX025"
ENSG00000180190	ENSG00000182372	ENSG00000104728	ENSG00000091879	ENSG00000275591
"TDRP"	"CLN8"	"ARHGEF10"	"ANGPT2"	"XKR5"
ENSG00000275342	ENSG00000253958	ENSG00000147324	ENSG00000104626	ENSG00000173273
"PRAG1"	"CLDN23"	"MFHAS1"	"ERI1"	"TNKS"
ENSG00000104643	ENSG00000154319	ENSG00000154328	ENSG00000079459	ENSG00000164733
"MTMR9"	"FAM167A"	"NEIL2"	"FDFT1"	"CTSB"
ENSG00000186523	ENSG00000154359	ENSG00000250305	ENSG00000164741	ENSG00000104723
"FAM86B1"	"LONRF1"	"TRMT9B"	"DLC1"	"TUSC3"
ENSG00000155970	ENSG00000104219	ENSG00000155975	ENSG00000003989	ENSG00000104213
"MICU3"	"ZDHHC2"	"VPS37A"	"SLC7A2"	"PDGFRL"
ENSG00000129422	ENSG00000078674	ENSG00000104763	ENSG00000156011	ENSG00000104611
"MTUS1"	"PCM1"	"ASAHI"	"PSD3"	"SH2D4A"
ENSG00000147408	ENSG00000147416	ENSG00000130227	ENSG00000158863	ENSG00000168453
"CSGALNACT1"	"ATP6V1B2"	"XPO7"	"FHIP2B"	"HR"
ENSG00000168487	ENSG00000168495	ENSG00000104635	ENSG00000120896	ENSG00000120913
"BMP1"	"POLR3D"	"SLC39A14"	"SORBS3"	"PDLIM2"
ENSG00000179388	ENSG00000008853	ENSG00000120889	ENSG00000173535	ENSG00000173530
"EGR3"	"RHOTB2"	"TNFRSF10B"	"TNFRSF10C"	"TNFRSF10D"
ENSG00000104689	ENSG00000147457	ENSG00000104679	ENSG00000134013	ENSG00000197217
"TNFRSF10A"	"CHMP7"	"R3HCC1"	"LOXL2"	"ENTPD4"
ENSG00000147454	ENSG00000167034	ENSG00000159167	ENSG00000277586	ENSG00000147459
"SLC25A37"	"NKX3-1"	"STC1"	"NEFL"	"DOCK5"
ENSG00000184661	ENSG00000221914	ENSG00000104765	ENSG00000092964	ENSG00000120899
"CDCA2"	"PPP2R2A"	"BNIP3L"	"DPYSL2"	"PTK2B"
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"CLU"	"SCARA3"	"CCDC25"	"ESCO2"	"PBK"
ENSG00000186918	ENSG00000104290	ENSG0000012232	ENSG00000197892	ENSG00000120875
"ZNF395"	"FZD3"	"EXTL3"	"KIF13B"	"DUSP4"
ENSG00000133872	ENSG00000104660	ENSG00000104671	ENSG00000157110	ENSG00000104687
"SARAF"	"LEPROTL1"	"DCTN6"	"RBPMS"	"GSR"
ENSG00000104695	ENSG00000172733	ENSG00000157168	ENSG00000198042	ENSG00000133874
"PPP2CB"	"PURG"	"NRG1"	"MAK16"	"RNF122"
ENSG00000183779	ENSG00000147475	ENSG00000147471	ENSG0000020181	ENSG00000156675
"ZNF703"	"ERLIN2"	"PLPBP"	"ADGRA2"	"RAB11FIP1"
ENSG00000187840	ENSG00000085788	ENSG00000147535	ENSG00000147548	ENSG00000077782
"EIF4EBP1"	"DDHD2"	"PLPP5"	"NSD3"	"FGFR1"
ENSG00000147526	ENSG00000169499	ENSG00000168615	ENSG00000197140	ENSG00000176907
"TACC1"	"PLEKHA2"	"ADAM9"	"ADAM32"	"TCIM"
ENSG00000104332	ENSG00000147533	ENSG00000147536	ENSG00000158669	ENSG00000070718
"SFRP1"	"GOLGA7"	"GINS4"	"GPAT4"	"AP3M2"
ENSG00000104368	ENSG00000104365	ENSG00000070501	ENSG00000078668	ENSG00000168575
"PLAT"	"IKBKB"	"POLB"	"VDAC3"	"SLC20A2"
ENSG00000176209	ENSG00000168522	ENSG00000185900	ENSG00000165102	ENSG00000164808
"SMIM19"	"FNTA"	"POMK"	"HGSNAT"	"SPIDR"
ENSG00000221869	ENSG00000253729	ENSG00000104738	ENSG00000019549	ENSG00000168300
"CEBPD"	"PRKDC"	"MCM4"	"SNAI2"	"PCMTD1"
ENSG00000196711	ENSG00000023287	ENSG00000047249	ENSG00000187735	ENSG00000120992
"ALKAL1"	"RB1CC1"	"ATP6V1H"	"TCEA1"	"LYPLA1"
ENSG00000167904	ENSG00000137574	ENSG00000008988	ENSG00000181690	ENSG00000170791
"TMEM68"	"TGS1"	"RPS20"	"PLAG1"	"CHCHD7"
ENSG00000181195	ENSG00000104331	ENSG00000215114	ENSG00000137575	ENSG00000035681
"PENK"	"BPNT2"	"UBXN2B"	"SDCBP"	"NSMAF"
ENSG00000198846	ENSG00000198363	ENSG00000137563	ENSG00000185728	ENSG00000104442
"TOX"	"ASPH"	"GGH"	"YTHDF3"	"ARMC1"
ENSG00000066855	ENSG00000205268	ENSG00000147573	ENSG00000147571	ENSG00000185697
"MTFR1"	"PDE7A"	"TRIM55"	"CRH"	"MYBL1"
ENSG00000104218	ENSG00000137573	ENSG00000140396	ENSG00000067167	ENSG00000178860
"CSPP1"	"SULF1"	"NCOA2"	"TRAM1"	"MSC"
ENSG00000104321	ENSG00000147601	ENSG00000147604	ENSG00000121039	ENSG00000040341
"TRPA1"	"TERF1"	"RPL7"	"RDH10"	"STAU2"
ENSG00000104343	ENSG00000175606	ENSG00000104381	ENSG00000091656	ENSG00000164751
"UBE2W"	"TMEM70"	"GDAP1"	"ZFHX4"	"PEX2"
ENSG00000171033	ENSG00000104427	ENSG00000164683	ENSG00000205189	ENSG00000076641
"PKIA"	"ZC2HC1A"	"HEY1"	"ZBTB10"	"PAG1"
ENSG00000164687	ENSG00000170323	ENSG00000133731	ENSG00000104231	ENSG00000104497
"FABP5"	"FABP4"	"IMPA1"	"ZFAND1"	"SNX16"
ENSG00000147614	ENSG00000085719	ENSG00000156103	ENSG00000104312	ENSG00000164823
"ATP6VOD2"	"CPNE3"	"MMP16"	"RIPK2"	"OSGIN2"

ENSG00000104325	ENSG00000180694	ENSG00000123119	ENSG00000253250	ENSG00000155100
"DECR1"	"TMEM64"	"NECAB1"	"C8orf88"	"OTUD6B"
ENSG00000188343	ENSG00000164953	ENSG00000164949	ENSG00000197275	ENSG00000164944
"CIBAR1"	"TMEM67"	"GEM"	"RAD54B"	"VIRMA"
ENSG00000164941	ENSG00000175305	ENSG00000164938	ENSG00000175895	ENSG00000156172
"INTS8"	"CCNE2"	"TP53INP1"	"PLEKHF2"	"CFAP418"
ENSG00000156466	ENSG00000156471	ENSG00000169439	ENSG00000104324	ENSG00000132561
"GDF6"	"PTDSS1"	"SDC2"	"CPQ"	"MATN2"
ENSG00000156482	ENSG00000104356	ENSG00000104375	ENSG00000156486	ENSG00000164920
"RPL30"	"POP1"	"STK3"	"KCNS2"	"OSR2"
ENSG00000132549	ENSG00000164919	ENSG00000156509	ENSG00000147669	ENSG00000104450
"VPS13B"	"COX6C"	"FBX043"	"POLR2K"	"SPAG1"
ENSG00000186106	ENSG00000070756	ENSG00000164924	ENSG00000120963	ENSG00000048392
"ANKRD46"	"PABPC1"	"YWHAZ"	"ZNF706"	"RRM2B"
ENSG00000104517	ENSG00000155090	ENSG00000155096	ENSG00000155097	ENSG00000164929
"UBR5"	"KLF10"	"AZIN1"	"ATP6V1C1"	"BAALC"
ENSG00000164932	ENSG00000164933	ENSG00000164934	ENSG00000147650	ENSG00000169946
"CTHRC1"	"SLC25A32"	"DCAF13"	"LRP12"	"ZFPM2"
ENSG00000164830	ENSG00000154188	ENSG00000104408	ENSG00000120526	ENSG00000120533
"OXR1"	"ANGPT1"	"EIF3E"	"NUDCD1"	"ENY2"
ENSG00000147654	ENSG00000147642	ENSG00000164796	ENSG00000104447	ENSG00000147677
"EBAG9"	"SYBU"	"CSMD3"	"TRPS1"	"EIF3H"
ENSG00000147679	ENSG00000164754	ENSG00000182197	ENSG00000177570	ENSG00000164761
"UTP23"	"RAD21"	"EXT1"	"SAMD12"	"TNFRSF11B"
ENSG00000184374	ENSG00000147676	ENSG00000136999	ENSG00000136960	ENSG00000136982
"COLEC10"	"MAL2"	"CCN3"	"ENPP2"	"DSCC1"
ENSG00000187955	ENSG00000172172	ENSG00000172167	ENSG00000172164	ENSG00000170961
"COL14A1"	"MRPL13"	"MTBP"	"SNTB1"	"HAS2"
ENSG00000156787	ENSG00000165156	ENSG00000156802	ENSG00000156795	ENSG00000156804
"TBC1D31"	"ZHX1"	"ATAD2"	"NTAQ1"	"FBX032"
ENSG00000176853	ENSG00000214814	ENSG00000164983	ENSG00000170881	ENSG00000170873
"FAM91A1"	"FER1L6"	"TMEM65"	"RNF139"	"MTSS1"
ENSG00000104549	ENSG00000164961	ENSG00000156831	ENSG00000173334	ENSG00000136997
"SQLE"	"WASHC5"	"NSMCE2"	"TRIB1"	"MYC"
ENSG00000132294	ENSG00000165071	ENSG00000129292	ENSG00000042832	ENSG00000155926
"EFR3A"	"TMEM71"	"PHF20L1"	"TG"	"SLA"
ENSG00000104415	ENSG00000104419	ENSG00000008513	ENSG00000131773	ENSG00000167632
"CCN4"	"NDRG1"	"ST3GAL1"	"KHDRBS3"	"TRAPPC9"
ENSG00000104472	ENSG00000123908	ENSG00000169398	ENSG00000105339	ENSG00000204882
"CHRA1"	"AGO2"	"PTK2"	"DENND3"	"GPR20"
ENSG00000171045	ENSG00000180155	ENSG00000160932	ENSG00000181638	ENSG00000250571
"TSNARE1"	"LYNX1"	"LY6E"	"ZFP41"	"GLI4"
ENSG00000014164	ENSG00000204839	ENSG00000147813	ENSG00000104529	ENSG00000179886

"ZC3H3"	"MROH6"	"NAPRT"	"EEF1D"	"TIGD5"
ENSG00000104524	ENSG00000104522	ENSG00000181135	ENSG00000180921	ENSG00000180900
"PYCR3"	"GFUS"	"ZNF707"	"FAM83H"	"SCRIB"
ENSG00000261150	ENSG00000178209	ENSG00000178719	ENSG00000178896	ENSG00000179091
"EPPK1"	"PLEC"	"GRINA"	"EXOSC4"	"CYC1"
ENSG00000179632	ENSG00000235173	ENSG00000179832	ENSG00000261236	ENSG00000185122
"MAF1"	"HGH1"	"MROH1"	"BOP1"	"HSF1"
ENSG00000185000	ENSG00000185803	ENSG00000071894	ENSG00000160949	ENSG00000187954
"DGAT1"	"SLC52A2"	"CPSF1"	"TONSL"	"ZFTRAF1"
ENSG00000167702	ENSG00000160957	ENSG00000213563	ENSG00000147799	ENSG00000198169
"KIFC2"	"RECQL4"	"C8orf82"	"ARHGAP39"	"ZNF251"
ENSG00000161016	ENSG00000197363	ENSG00000147789	ENSG00000170619	ENSG00000196150
"RPL8"	"ZNF517"	"ZNF7"	"COMMD5"	"ZNF250"
ENSG00000182307	ENSG00000107104	ENSG00000080503	ENSG00000147852	ENSG00000080298
"C8orf33"	"KANK1"	"SMARCA2"	"VLDLR"	"RFX3"
ENSG00000106688	ENSG00000205808	ENSG00000106993	ENSG00000147853	ENSG00000096968
"SLC1A1"	"PLPP6"	"CDC37L1"	"AK3"	"JAK2"
ENSG00000120217	ENSG00000197646	ENSG00000107036	ENSG00000099219	ENSG00000183354
"CD274"	"PDCD1LG2"	"RIC1"	"ERMP1"	"BRD10"
ENSG00000137040	ENSG00000137033	ENSG00000137038	ENSG00000107165	ENSG00000153714
"RANBP6"	"IL33"	"DMAC1"	"TYRP1"	"LURAP1L"
ENSG00000147862	ENSG00000175893	ENSG00000164975	ENSG00000164985	ENSG00000173068
"NFIB"	"ZDHHC21"	"SNAPC3"	"PSIP1"	"BNC2"
ENSG00000044459	ENSG00000178031	ENSG00000147874	ENSG00000137145	ENSG00000137154
"CNTLN"	"ADAMTSL1"	"HAUS6"	"DENND4C"	"RPS6"
ENSG00000177076	ENSG00000188352	ENSG00000188921	ENSG00000198642	ENSG00000184995
"ACER2"	"FOCAD"	"HACD4"	"KLHL9"	"IFNE"
ENSG00000099810	ENSG00000147883	ENSG00000176399	ENSG00000198680	ENSG00000120159
"MTAP"	"CDKN2B"	"DMRTA1"	"TUSC1"	"CAAP1"
ENSG00000137055	ENSG00000120156	ENSG00000147894	ENSG00000122729	ENSG00000107201
"PLAA"	"TEK"	"C9orf72"	"ACO1"	"RIGI"
ENSG00000197579	ENSG00000086061	ENSG00000086062	ENSG00000107262	ENSG00000086065
"TOPORS"	"DNAJA1"	"B4GALT1"	"BAG1"	"CHMP5"
ENSG00000086102	ENSG00000165272	ENSG00000165271	ENSG00000230453	ENSG00000107341
"NFX1"	"AQP3"	"NOL6"	"ANKRD18B"	"UBE2R2"
ENSG00000137073	ENSG00000186638	ENSG00000164976	ENSG00000164970	ENSG00000137100
"UBAP2"	"KIF24"	"MYORG"	"FAM219A"	"DCTN3"
ENSG00000147955	ENSG00000137094	ENSG00000165280	ENSG00000221829	ENSG00000165283
"SIGMAR1"	"DNAJB5"	"VCP"	"FANCG"	"STOML2"
ENSG00000005238	ENSG00000198722	ENSG00000198853	ENSG00000137135	ENSG00000198467
"ATOSB"	"UNC13B"	"RUSC2"	"ARHGEF39"	"TPM2"
ENSG00000137076	ENSG00000070610	ENSG00000107185	ENSG00000137133	ENSG00000137103
"TLN1"	"GBA2"	"RGP1"	"HINT2"	"TMEM8B"

ENSG00000196196	ENSG00000122707	ENSG00000122694	ENSG00000185972	ENSG00000122705
"HRCT1"	"RECK"	"GLIPR2"	"CCIN"	"CLTA"
ENSG00000137075	ENSG00000165304	ENSG00000137106	ENSG00000137054	ENSG00000147912
"RNF38"	"MELK"	"GRHPR"	"POLR1E"	"FBX010"
ENSG00000122696	ENSG00000107338	ENSG00000137124	ENSG00000154330	ENSG00000187866
"SLC25A51"	"SHB"	"ALDH1B1"	"PGM5"	"PABIR1"
ENSG00000165060	ENSG00000119139	ENSG00000165072	ENSG00000198887	ENSG00000119138
"FXN"	"TJP2"	"MAMDC2"	"SMC5"	"KLF9"
ENSG00000135048	ENSG00000107362	ENSG00000107372	ENSG00000135046	ENSG00000135045
"CEMIP2"	"ABHD17B"	"ZFAND5"	"ANXA1"	"C9orf40"
ENSG00000156017	ENSG00000099139	ENSG00000135002	ENSG00000187210	ENSG00000106772
"CARNMT1"	"PCSK5"	"RFK"	"GCNT1"	"PRUNE2"
ENSG00000197969	ENSG00000156052	ENSG00000148019	ENSG00000135069	ENSG00000106829
"VPS13A"	"GNAQ"	"CEP78"	"PSAT1"	"TLE4"
ENSG00000148057	ENSG00000135018	ENSG00000165115	ENSG00000165119	ENSG00000178966
"IDNK"	"UBQLN1"	"KIF27"	"HNRNPK"	"RMI1"
ENSG00000197506	ENSG00000135049	ENSG00000135070	ENSG00000083223	ENSG00000180447
"SLC28A3"	"AGTPBP1"	"ISCA1"	"TUT7"	"GAS1"
ENSG00000135047	ENSG00000130045	ENSG00000148082	ENSG00000123975	ENSG00000187742
"CTSL"	"NXNL2"	"SHC3"	"CKS2"	"SECISBP2"
ENSG00000187764	ENSG00000148090	ENSG00000165030	ENSG00000090054	ENSG00000196305
"SEMA4D"	"AUH"	"NFIL3"	"SPTLC1"	"IARS1"
ENSG00000188312	ENSG00000165233	ENSG00000131669	ENSG00000048828	ENSG00000197724
"CENPP"	"CARD19"	"NINJ1"	"FAM120A"	"PHF2"
ENSG00000148110	ENSG00000148120	ENSG00000185920	ENSG00000130958	ENSG00000165244
"MFSD14B"	"AOPEP"	"PTCH1"	"SLC35D2"	"ZNF367"
ENSG00000081377	ENSG00000158122	ENSG00000136943	ENSG00000136842	ENSG00000136925
"CDC14B"	"PRXL2C"	"CTSV"	"TMOD1"	"TSTD2"
ENSG00000136936	ENSG00000136932	ENSG00000136938	ENSG00000095380	ENSG00000106785
"XPA"	"TRMO"	"ANP32B"	"NANS"	"TRIM14"
ENSG00000106789	ENSG00000095383	ENSG00000136928	ENSG00000119514	ENSG00000204291
"CORO2A"	"TBC1D2"	"GABBR2"	"GALNT12"	"COL15A1"
ENSG00000106799	ENSG00000119508	ENSG00000023318	ENSG00000119509	ENSG00000136891
"TGFB1"	"NR4A3"	"ERP44"	"INVS"	"TEX10"
ENSG00000066697	ENSG00000170681	ENSG00000136870	ENSG00000165152	ENSG00000155827
"MSANTD3"	"CAVIN4"	"ZNF189"	"PGAP4"	"RNF20"
ENSG00000136824	ENSG00000136783	ENSG00000165029	ENSG00000070214	ENSG00000106701
"SMC2"	"NIPSNAP3A"	"ABCA1"	"SLC44A1"	"FSD1L"
ENSG00000106692	ENSG00000095209	ENSG00000119318	ENSG00000136826	ENSG00000070061
"FKTN"	"TMEM38B"	"RAD23B"	"KLF4"	"ELP1"
ENSG00000119328	ENSG00000119326	ENSG00000106771	ENSG00000070159	ENSG00000243444
"ABITRAM"	"CTNNAL1"	"TMEM245"	"PTPN3"	NA
ENSG00000136810	ENSG00000165124	ENSG00000136813	ENSG00000106853	ENSG00000059769

"TXN"	"SVEP1"	"ECPAS"	"PTGR1"	"DNAJC25"
ENSG00000148154	ENSG00000106868	ENSG00000119314	ENSG00000119471	ENSG00000165185
"UGCG"	"SUSD1"	"PTBP3"	"HSDL2"	"KIAA1958"
ENSG00000148153	ENSG00000119321	ENSG00000136868	ENSG00000148218	ENSG00000148229
"INIP"	"FKBP15"	"SLC31A1"	"ALAD"	"POLE3"
ENSG00000157657	ENSG00000196739	ENSG00000106948	ENSG00000095397	ENSG00000136888
"ZNF618"	"COL27A1"	"AKNA"	"WHRN"	"ATP6V1G1"
ENSG00000181634	ENSG00000041982	ENSG00000182752	ENSG00000148219	ENSG00000119401
"TNFSF15"	"TNC"	"PAPPA"	"ASTN2"	"TRIM32"
ENSG00000136861	ENSG00000106780	ENSG00000095261	ENSG00000119403	ENSG00000056558
"CDK5RAP2"	"MEGF9"	"PSMD5"	"PHF19"	"TRAF1"
ENSG00000106804	ENSG00000119397	ENSG00000148180	ENSG00000148175	ENSG00000136848
"C5"	"CNTRL"	"GSN"	"STOM"	"DAB2IP"
ENSG00000175764	ENSG00000119421	ENSG00000119446	ENSG00000095303	ENSG00000197233
"TTLL11"	"NDUFA8"	"RBM18"	"PTGS1"	"OR1J2"
ENSG00000239590	ENSG00000165202	ENSG00000136940	ENSG00000056586	ENSG00000186130
"OR1J4"	"OR1Q1"	"PDCL"	"RC3H2"	"ZBTB6"
ENSG00000119408	ENSG00000136930	ENSG00000136942	ENSG00000173611	ENSG00000119414
"NEK6"	"PSMB7"	"RPL35"	"SCAI"	"PPP6C"
ENSG00000136933	ENSG00000044574	ENSG00000196814	ENSG00000177125	ENSG00000136859
"RABEPK"	"HSPA5"	"MVB12B"	"ZBTB34"	"ANGPTL2"
ENSG00000136856	ENSG00000196152	ENSG00000197958	ENSG00000136854	ENSG00000160401
"SLC2A8"	"ZNF79"	"RPL12"	"STXBP1"	"CFAP157"
ENSG00000136807	ENSG00000106991	ENSG00000136840	ENSG00000136908	ENSG00000167106
"CDK9"	"ENG"	"ST6GALNAC4"	"DPM2"	"EEIG1"
ENSG00000148339	ENSG00000148334	ENSG00000171159	ENSG00000106976	ENSG00000167113
"SLC25A25"	"PTGES2"	"BBLN"	"DNM1"	"COQ4"
ENSG00000167123	ENSG00000136811	ENSG00000119392	ENSG00000197694	ENSG00000119333
"CERCAM"	"ODF2"	"GLE1"	"SPTAN1"	"DYNC2I2"
ENSG00000160447	ENSG00000160445	ENSG00000171097	ENSG00000136802	ENSG00000175287
"PKN3"	"ZER1"	"KYAT1"	"LRRC8A"	"PHYHD1"
ENSG00000095319	ENSG00000148343	ENSG00000167130	ENSG00000095321	ENSG00000119383
"NUP188"	"MIGA2"	"DOLPP1"	"CRAT"	"PTPA"
ENSG00000188483	ENSG00000148335	ENSG00000148331	ENSG00000167157	ENSG00000136816
"IER5L"	"NTMT1"	"ASB6"	"PRRX2"	"TOR1B"
ENSG00000136827	ENSG00000136819	ENSG00000148358	ENSG00000107130	ENSG00000130707
"TOR1A"	"C9orf78"	"GPR107"	"NCS1"	"ASS1"
ENSG00000107164	ENSG00000130713	ENSG00000097007	ENSG00000130720	ENSG00000126883
"FUBP3"	"EXOSC2"	"ABL1"	"FIBCD1"	"NUP214"
ENSG00000160539	ENSG00000130723	ENSG00000130714	ENSG00000107263	ENSG00000160563
"PLPP7"	NA	"POMT1"	"RAPGEF1"	"MED27"
ENSG00000196358	ENSG00000107290	ENSG00000125484	ENSG00000165698	ENSG00000148308
"NTNG2"	"SETX"	"GTF3C4"	"SPACA9"	"GTF3C5"

ENSG00000160271	ENSG00000148297	ENSG00000148303	ENSG00000148290	ENSG00000148300
"RALGDS"	"MED22"	"RPL7A"	"SURF1"	"REX04"
ENSG00000160325	ENSG00000123453	ENSG00000160293	ENSG00000169925	ENSG00000196363
"CACFD1"	"SARDH"	"VAV2"	"BRD3"	"WDR5"
ENSG00000186350	ENSG00000130635	ENSG00000196422	ENSG00000148411	ENSG00000238227
"RXRA"	"COL5A1"	"PPP1R26"	"NACC2"	"TMEM250"
ENSG00000165661	ENSG00000165684	ENSG00000165688	ENSG00000148384	ENSG00000148400
"QSXX2"	"SNAPC4"	"PMPCA"	"INPP5E"	"NOTCH1"
ENSG00000172889	ENSG00000169692	ENSG00000196642	ENSG00000054148	ENSG00000107223
"EGFL7"	"AGPAT2"	"RABL6"	"PHPT1"	"EDF1"
ENSG00000127191	ENSG00000159069	ENSG00000107317	ENSG00000148362	ENSG00000107331
"TRAF2"	"FBXW5"	"PTGDS"	"PAXX"	"ABCA2"
ENSG00000107281	ENSG00000186193	ENSG00000197355	ENSG00000176978	ENSG00000176248
"NPDC1"	"SAPCD2"	"UAP1L1"	"DPP7"	"ANAPC2"
ENSG00000176101	ENSG00000187713	ENSG00000188229	ENSG00000188986	ENSG00000165802
"SSNA1"	"TMEM203"	"TUBB4B"	"NELFB"	"NSMF"
ENSG00000130653	ENSG00000197070	ENSG00000177963	ENSG00000185627	ENSG00000185885
"PNPLA7"	"ARRDC1"	"RIC8A"	"PSMD13"	"IFITM1"
ENSG00000142089	ENSG00000184363	ENSG00000174915	ENSG00000023191	ENSG00000161328
"IFITM3"	"PKP3"	"PTDSS2"	"RNH1"	"LRRC56"
ENSG00000099849	ENSG00000070047	ENSG00000185507	ENSG00000177030	ENSG00000177106
"RASSF7"	"PHRF1"	"IRF7"	"DEAF1"	"EPS8L2"
ENSG00000184524	ENSG00000177542	ENSG00000177595	ENSG00000177600	ENSG00000177666
"CEND1"	"SLC25A22"	"PIDD1"	"RPLP2"	"PNPLA2"
ENSG00000177700	ENSG00000214063	ENSG00000177830	ENSG00000078902	ENSG00000182208
"POLR2L"	"TSPAN4"	"CHID1"	"TOLLIP"	"MOB2"
ENSG00000184545	ENSG00000244242	ENSG00000117984	ENSG00000214026	ENSG00000167244
"DUSP8"	"IFITM10"	"CTSD"	"MRPL23"	"IGF2"
ENSG00000110651	ENSG00000129757	ENSG00000110628	ENSG00000205531	ENSG00000110619
"CD81"	"CDKN1C"	"SLC22A18"	"NAP1L4"	"CARS1"
ENSG00000005801	ENSG00000148985	ENSG00000177105	ENSG00000167323	ENSG00000167325
"ZNF195"	"PGAP2"	"RHOG"	"STIM1"	"RRM1"
ENSG00000167333	ENSG00000167332	ENSG00000121236	ENSG00000132256	ENSG00000132274
"TRIM68"	"OR51E2"	"TRIM6"	"TRIM5"	"TRIM22"
ENSG00000170955	ENSG00000166311	ENSG00000166313	ENSG00000132275	ENSG00000166340
"CAVIN3"	"SMPD1"	"APBB1"	"RRP8"	"TPP1"
ENSG00000158042	ENSG00000182261	ENSG00000175390	ENSG00000166402	ENSG00000166441
"MRPL17"	"NLRP10"	"EIF3F"	"TUB"	"RPL27A"
ENSG00000166444	ENSG00000166452	ENSG00000175348	ENSG00000175352	ENSG00000184014
"DENND2B"	"AKIP1"	"TMEM9B"	"NRIP3"	"DENND5A"
ENSG00000166483	ENSG00000148926	ENSG00000133805	ENSG00000110315	ENSG00000072952
"WEE1"	"ADM"	"AMPD3"	"RNF141"	"IRAG1"
ENSG00000110321	ENSG00000110328	ENSG00000050165	ENSG00000133816	ENSG00000197702

"EIF4G2"	"GALNT18"	"DKK3"	"MICAL2"	"PARVA"
ENSG00000187079	ENSG00000133794	ENSG00000148925	ENSG00000197601	ENSG00000133818
"TEAD1"	"BMAL1"	"BTBD10"	"FAR1"	"RRAS2"
ENSG00000129083	ENSG00000152270	ENSG00000175868	ENSG00000188487	ENSG00000110693
"COPB1"	"PDE3B"	"CALCB"	"INSC"	"SOX6"
ENSG00000110700	ENSG00000011405	ENSG00000070081	ENSG00000188211	ENSG00000166788
"RPS13"	"PIK3C2A"	"NUCB2"	"NCR3LG1"	"SAAL1"
ENSG00000110756	ENSG00000110768	ENSG00000134333	ENSG00000074319	ENSG00000151116
"HPS5"	"GTF2H1"	"LDHA"	"TSG101"	"UEVLD"
ENSG00000151117	ENSG00000129173	ENSG00000166833	ENSG00000187398	ENSG00000109881
"TMEM86A"	"E2F8"	"NAV2"	"LUZP2"	"CCDC34"
ENSG00000205213	ENSG00000148943	ENSG00000176697	ENSG00000121621	ENSG00000169519
"LGR4"	"LIN7C"	"BDNF"	"KIF18A"	"METTL15"
ENSG00000109911	ENSG00000049449	ENSG00000060749	ENSG00000176148	ENSG00000280550
"ELP4"	"RCN1"	"QSER1"	"TCP11L1"	NA
ENSG00000110422	ENSG00000110427	ENSG00000085063	ENSG00000135363	ENSG00000135387
"HIPK3"	"KIAA1549L"	"CD59"	"LMO2"	"CAPRIN1"
ENSG00000135372	ENSG00000166016	ENSG00000121691	ENSG00000135373	ENSG00000149089
"NAT10"	"ABTB2"	"CAT"	"EHF"	"APIP"
ENSG00000110435	ENSG00000026508	ENSG00000110436	ENSG00000149090	ENSG00000179431
"PDHX"	"CD44"	"SLC1A2"	"PAMR1"	"FJX1"
ENSG00000166326	ENSG00000179241	ENSG00000175104	ENSG00000166349	ENSG00000166181
"TRIM44"	"LDLRAD3"	"TRAF6"	"RAG1"	"API5"
ENSG00000052841	ENSG00000166199	ENSG00000187479	ENSG00000085117	ENSG00000157570
"TTC17"	"ALKBH3"	"C11orf96"	"CD82"	"TSPAN18"
ENSG00000175274	ENSG00000181830	ENSG00000121671	ENSG00000234776	ENSG00000121680
"TP53I11"	"SLC35C1"	"CRY2"	"FREY1"	"PEX16"
ENSG00000110492	ENSG00000110497	ENSG00000175224	ENSG00000175220	ENSG00000175216
"MDK"	"AMBRA1"	"ATG13"	"ARHGAP1"	"CKAP5"
ENSG00000134569	ENSG00000149179	ENSG00000149182	ENSG00000165912	ENSG00000134574
"LRP4"	"CSTPP1"	"ARFGAP2"	"PACSIN3"	"DDB2"
ENSG00000134575	ENSG00000110514	ENSG00000165915	ENSG00000165916	ENSG00000149187
"ACP2"	"MADD"	"SLC39A13"	"PSMC3"	"CELF1"
ENSG00000109919	ENSG00000109920	ENSG00000149177	ENSG00000149136	ENSG00000149150
"MTCH2"	"FBNP4"	"PTPRJ"	"SSRP1"	"SLC43A1"
ENSG00000134809	ENSG00000156587	ENSG00000149131	ENSG00000156599	ENSG00000156603
"TIMM10"	"UBE2L6"	"SERPING1"	"ZDHHC5"	"MED19"
ENSG00000211450	ENSG00000110031	ENSG00000186660	ENSG00000189057	ENSG00000166801
"SELENOH"	"LPXN"	"ZFP91"	"FAM111B"	"FAM111A"
ENSG00000110042	ENSG00000110048	ENSG00000166889	ENSG00000166900	ENSG00000166902
"DTX4"	"OSBP"	"PATL1"	"STX3"	"MRPL16"
ENSG00000183134	ENSG00000110107	ENSG00000110108	ENSG00000006118	ENSG00000167992
"PTGDR2"	"PRPF19"	"TMEM109"	"TMEM132A"	"VWCE"

ENSG00000167986	ENSG00000149476	ENSG00000162144	ENSG00000134780	ENSG00000124920
"DDB1"	"TKFC"	"CYB561A3"	"DAGLA"	"MYRF"
ENSG00000134825	ENSG00000168496	ENSG00000134824	ENSG00000149485	ENSG00000221968
"TMEM258"	"FEN1"	"FADS2"	"FADS1"	"FADS3"
ENSG00000167996	ENSG00000149503	ENSG00000124942	ENSG00000149499	ENSG00000149541
"FTH1"	"INCENP"	"AHNAK"	"EML3"	"B3GAT3"
ENSG00000185085	ENSG00000204922	ENSG00000162191	ENSG00000214753	ENSG00000162222
"INTS5"	"UQCC3"	"UBXN1"	"HNRNPUL2"	"TTC9C"
ENSG00000168002	ENSG00000162227	ENSG00000185475	ENSG00000162231	ENSG00000168003
"POLR2G"	"TAF6L"	"TMEM179B"	"NXF1"	"SLC3A2"
ENSG00000184743	ENSG00000133318	ENSG00000188070	ENSG00000168005	ENSG00000110583
"ATL3"	"RTN3"	"ZFTA"	"SPINDOC"	"NAA40"
ENSG00000168439	ENSG00000149761	ENSG00000110011	ENSG00000173486	ENSG00000173264
"STIP1"	"NUDT22"	"DNAJC4"	"FKBP2"	"GPR137"
ENSG00000173153	ENSG00000126432	ENSG00000162302	ENSG00000168066	ENSG00000168067
"ESRRA"	"PRDX5"	"RPS6KA4"	"SF1"	"MAP4K2"
ENSG00000133895	ENSG00000171219	ENSG00000110047	ENSG00000110046	ENSG00000146670
"MEN1"	"CDC42BPG"	"EHD1"	"ATG2A"	"CDA5"
ENSG00000149809	ENSG00000162298	ENSG0000014216	ENSG0000014138	ENSG00000133884
"TM7SF2"	"SYVN1"	"CAPN1"	"POLA2"	"DPF2"
ENSG00000126391	ENSG00000168056	ENSG00000176973	ENSG00000173442	ENSG00000197136
"FRMD8"	"LTBP3"	"FAM89B"	"EHBP1L1"	"PCNX3"
ENSG00000173039	ENSG00000172922	ENSG00000172757	ENSG00000172500	ENSG00000175602
"RELA"	"RNASEH2C"	"CFL1"	"FIBP"	"CCDC85B"
ENSG00000175592	ENSG00000175573	ENSG00000175550	ENSG00000175467	ENSG00000175376
"FOSL1"	"C11orf68"	"DRAP1"	"SART1"	"EIF1AD"
ENSG00000175334	ENSG00000087365	ENSG00000175115	ENSG00000174996	ENSG00000174807
"BANF1"	"SF3B2"	"PACS1"	"KLC2"	"CD248"
ENSG00000174791	ENSG00000174576	ENSG00000174547	ENSG00000174080	ENSG00000239306
"RIN1"	"NPAS4"	"MRPL11"	"CTS1"	"RBM14"
ENSG00000173914	ENSG00000173715	ENSG00000173599	ENSG00000173227	ENSG00000173020
"RBM4B"	"TOP6BL"	"PC"	"SYT12"	"GRK2"
ENSG00000172932	ENSG00000175482	ENSG00000175505	ENSG00000172531	ENSG00000175634
"ANKRD13D"	"POLD4"	"CLCF1"	"PPP1CA"	"RPS6KB2"
ENSG00000172725	ENSG00000172663	ENSG00000110697	ENSG00000167797	ENSG00000084207
"CORO1B"	"TMEM134"	"PITPNM1"	"CDK2AP2"	"GSTP1"
ENSG00000110057	ENSG00000006534	ENSG00000110717	ENSG00000110719	ENSG00000110721
"UNC93B1"	"ALDH3B1"	"NDUFS8"	"TCIRG1"	"CHKA"
ENSG00000110066	ENSG00000171067	ENSG00000110075	ENSG00000069482	ENSG00000132749
"KMT5B"	"C11orf24"	"PPP6R3"	"GAL"	"TESMIN"
ENSG00000110090	ENSG00000172935	ENSG00000162341	ENSG00000172927	ENSG00000110092
"CPT1A"	"MRGPRF"	"TPCN2"	"MYEOV"	"CCND1"
ENSG00000131620	ENSG00000168040	ENSG00000085733	ENSG00000162105	ENSG00000172893

"ANO1"	"FADD"	"CTTN"	"SHANK2"	"DHCR7"
ENSG00000158483	ENSG00000137497	ENSG00000149357	ENSG00000165458	ENSG00000162129
"FAM86C1P"	"NUMA1"	"LAMTOR1"	"INPPL1"	"CLPB"
ENSG00000186635	ENSG00000214530	ENSG00000110237	ENSG00000054967	ENSG00000054965
"ARAP1"	"STARD10"	"ARHGEF17"	"RELT"	"FAM168A"
ENSG00000175582	ENSG00000181924	ENSG00000175567	ENSG00000168014	ENSG00000149380
"RAB6A"	"COA4"	"UCP2"	"C2CD3"	"P4HA3"
ENSG00000165434	ENSG00000077514	ENSG00000166439	ENSG00000166435	ENSG00000162139
"PGM2L1"	"POLD3"	"RNF169"	"XRR1"	"NEU3"
ENSG00000137486	ENSG00000149273	ENSG00000158555	ENSG00000149257	ENSG00000198382
"ARRB1"	"RPS3"	"GDPD5"	"SERPINH1"	"UVRAG"
ENSG00000137492	ENSG00000182704	ENSG00000078124	ENSG00000149260	ENSG00000149269
"THAP12"	"TSKU"	"ACER3"	"CAPN5"	"PAK1"
ENSG00000074201	ENSG00000048649	ENSG00000087884	ENSG00000149262	ENSG00000188997
"CLNS1A"	"RSF1"	"AAMDC"	"INTS4"	"KCTD21"
ENSG00000033327	ENSG00000149256	ENSG00000165490	ENSG00000137502	ENSG00000137494
"GAB2"	"TENM4"	"DDIAS"	"RAB30"	"ANKRD42"
ENSG00000137500	ENSG00000171204	ENSG00000171202	ENSG00000137504	ENSG00000179071
"CCDC90B"	"TMEM126B"	"TMEM126A"	"CREBZF"	"CCDC89"
ENSG00000137501	ENSG00000073921	ENSG00000074266	ENSG00000149201	ENSG00000150687
"SYTL2"	"PICALM"	"EED"	"CCDC81"	"PRSS23"
ENSG00000123892	ENSG00000109861	ENSG00000086991	ENSG00000110172	ENSG00000180773
"RAB38"	"CTSC"	"NOX4"	"CHORDC1"	"SLC36A4"
ENSG00000166002	ENSG00000166012	ENSG00000042429	ENSG00000214376	ENSG00000110218
"SMC04"	"TAF1D"	"MED17"	"VSTM5"	"PANX1"
ENSG00000020922	ENSG00000263465	ENSG00000149218	ENSG00000149212	ENSG00000077458
"MRE11"	"SRSF8"	"ENDOD1"	"SESN3"	"FAM76B"
ENSG00000087053	ENSG00000149231	ENSG00000165895	ENSG00000170647	ENSG00000137672
"MTMR2"	"CCDC82"	"ARHGAP42"	NA	"TRPC6"
ENSG00000023445	ENSG00000110330	ENSG00000152558	ENSG00000166670	ENSG00000196611
"BIRC3"	"BIRC2"	"TMEM123"	"MMP10"	"MMP1"
ENSG00000149968	ENSG00000137745	ENSG00000137692	ENSG00000187240	ENSG00000170962
"MMP3"	"MMP13"	"DCUN1D5"	"DYNC2H1"	"PDGFD"
ENSG00000196954	ENSG00000137752	ENSG00000204397	ENSG00000152578	ENSG00000170903
"CASP4"	"CASP1"	"CARD16"	"GRIA4"	"MSANTD4"
ENSG00000149313	ENSG00000152402	ENSG00000137760	ENSG00000075239	ENSG00000149308
"AASDHPPT"	"GUCY1A2"	"ALKBH8"	"ACAT1"	"NPAT"
ENSG00000149311	ENSG00000178202	ENSG00000178105	ENSG00000149289	ENSG00000137710
"ATM"	"POGLUT3"	"DDX10"	"ZC3H12C"	"RDX"
ENSG00000137714	ENSG00000137727	ENSG00000204381	ENSG00000170145	ENSG00000137713
"FDX1"	"ARHGAP20"	"LAYN"	"SIK2"	"PPP2R1B"
ENSG00000109846	ENSG00000150764	ENSG00000150768	ENSG00000150779	ENSG00000150782
"CRYAB"	"DIXDC1"	"DLAT"	"TIMM8B"	"IL18"

ENSG00000150787	ENSG00000149292	ENSG00000048028	ENSG00000166741	ENSG00000076053
"PTS"	"TTC12"	"USP28"	"NNMT"	"RBM7"
ENSG00000076043	ENSG00000182985	ENSG00000160584	ENSG00000168092	ENSG00000149591
"REX02"	"CADM1"	"SIK3"	"PAFAH1B2"	"TAGLN"
ENSG00000186318	ENSG00000110274	ENSG00000177098	ENSG00000167283	ENSG00000118058
"BACE1"	"CEP164"	"SCN4B"	"ATP5MG"	"KMT2A"
ENSG00000118096	ENSG00000019144	ENSG00000110367	ENSG00000118181	ENSG00000137700
"IFT46"	"PHLDB1"	"DDX6"	"RPS25"	"SLC37A4"
ENSG00000149428	ENSG00000256269	ENSG00000188486	ENSG00000172269	ENSG00000172375
"HYOU1"	"HMBS"	"H2AX"	"DPAGT1"	"C2CD2L"
ENSG00000172273	ENSG00000160703	ENSG00000110395	ENSG00000076706	ENSG00000173456
"HINFP"	"NLRX1"	"CBL"	"MCAM"	"RNF26"
ENSG00000154096	ENSG00000110400	ENSG00000184232	ENSG00000181264	ENSG00000196914
"THY1"	"NECTIN1"	"OAF"	"TLCD5"	"ARHGEF12"
ENSG00000149403	ENSG00000154114	ENSG00000109929	ENSG00000137642	ENSG00000154127
"GRIK4"	"TBCEL"	"SC5D"	"SORL1"	"UBASH3B"
ENSG00000109944	ENSG00000109971	ENSG00000023171	ENSG00000110002	ENSG00000154144
"JHY"	"HSPA8"	"GRAMD1B"	"VWA5A"	"TBRG1"
ENSG00000110013	ENSG00000154146	ENSG00000120458	ENSG00000154134	ENSG00000154133
"SIAE"	"NRGN"	"MSANTD2"	"ROB03"	"ROB04"
ENSG00000149548	ENSG00000134955	ENSG00000165495	ENSG00000149547	ENSG00000134910
"CCDC15"	"SLC37A2"	"PKN0X2"	"EI24"	"STT3A"
ENSG00000149554	ENSG00000198331	ENSG00000110060	ENSG00000064309	ENSG00000197798
"CHEK1"	"HYLS1"	"PUS3"	"CDON"	"FAM118B"
ENSG00000182934	ENSG00000110074	ENSG00000110063	ENSG00000149571	ENSG00000134954
"SRPRA"	"FOXRED1"	"DCPS"	"KIRREL3"	"ETS1"
ENSG00000151702	ENSG00000120457	ENSG00000174370	ENSG00000134909	ENSG00000084234
"FLI1"	"KCNJ5"	"KCNJ5-AS1"	"ARHGAP32"	"APLP2"
ENSG00000196323	ENSG00000134917	ENSG00000120451	ENSG00000182667	ENSG00000166086
"ZBTB44"	"ADAMTS8"	"SNX19"	"NTM"	"JAM3"
ENSG00000151503	ENSG00000151502	ENSG00000151498	ENSG00000151240	ENSG00000180525
"NCAPD3"	"VPS26B"	"ACAD8"	"DIP2C"	"DIP2C-AS1"
ENSG00000107929	ENSG00000107937	ENSG00000067064	ENSG00000047056	ENSG00000067057
"LARP4B"	"GTPBP4"	"IDI1"	"WDR37"	"PFKP"
ENSG00000107959	ENSG00000067082	ENSG00000151632	ENSG00000187134	ENSG00000196139
"PITRM1"	"KLF6"	"AKR1C2"	"AKR1C1"	"AKR1C3"
ENSG00000173848	ENSG00000196372	ENSG00000108021	ENSG00000057608	ENSG00000134452
"NET1"	"ASB13"	"TASOR2"	"GDI2"	"FBH1"
ENSG00000134470	ENSG00000170525	ENSG00000198879	ENSG00000165629	ENSG00000107485
"IL15RA"	"PFKFB3"	"SFMBT2"	"ATP5F1C"	"GATA3"
ENSG00000048740	ENSG00000148429	ENSG00000134463	ENSG00000148426	ENSG00000151465
"CELFB2"	"USP6NL"	"ECHDC3"	"PROSER2"	"CDC123"
ENSG00000183049	ENSG00000123240	ENSG00000065328	ENSG00000107537	ENSG00000086475

"CAMK1D"	"OPTN"	"MCM10"	"PHYH"	"SEPHS1"
ENSG00000165626	ENSG00000151474	ENSG00000065809	ENSG00000187522	ENSG00000152455
"BEND7"	"FRMD4A"	"FAM107B"	"HSPA14"	"SUV39H2"
ENSG00000152464	ENSG00000152465	ENSG00000077943	ENSG00000148481	ENSG00000148484
"RPP38"	"NMT2"	"ITGA8"	"MINDY3"	"RSU1"
ENSG00000026025	ENSG00000165996	ENSG00000136738	ENSG00000165997	ENSG00000120594
"VIM"	"HACD1"	"STAM"	"ARL5B"	"PLXDC2"
ENSG00000204682	ENSG00000180592	ENSG00000078403	ENSG00000148444	ENSG00000150867
"MIR1915HG"	"SKIDA1"	"MLLT10"	"COMMD3"	"PIP4K2A"
ENSG00000148450	ENSG00000165312	ENSG00000107863	ENSG00000099256	ENSG00000148459
"MSRB2"	"OTUD1"	"ARHGAP21"	"PRTFDC1"	"PDSS1"
ENSG00000107890	ENSG00000120539	ENSG00000107897	ENSG00000099246	ENSG00000169126
"ANKRD26"	"MASTL"	"ACBD5"	"RAB18"	"ODAD2"
ENSG00000150054	ENSG00000095739	ENSG00000197321	ENSG00000165757	ENSG00000107968
"MPP7"	"BAMBI"	"SVIL"	"JCAD"	"MAP3K8"
ENSG00000183621	ENSG00000148516	ENSG00000170759	ENSG00000150093	ENSG00000099250
"ZNF438"	"ZEB1"	"KIF5B"	"ITGB1"	"NRP1"
ENSG00000148498	ENSG00000108094	ENSG00000095794	ENSG00000108100	ENSG00000177283
"PARD3"	"CUL2"	"CREM"	"CCNY"	"FZD8"
ENSG00000198105	ENSG00000189180	ENSG00000196693	ENSG00000165733	ENSG00000165731
"ZNF248"	"ZNF33A"	"ZNF33B"	"BMS1"	"RET"
ENSG00000169826	ENSG00000169813	ENSG00000196793	ENSG00000169740	ENSG00000107562
"CSGALNACT2"	"HNRNPF"	"ZNF239"	"ZNF32"	"CXCL12"
ENSG00000107551	ENSG00000165507	ENSG00000165512	ENSG00000165406	ENSG00000172661
"RASSF4"	"DEPP1"	"ZNF22"	"MARCF8"	"WASHC2C"
ENSG00000266412	ENSG00000107643	ENSG00000128805	ENSG00000165633	ENSG00000099290
"NCOA4"	"MAPK8"	"ARHGAP22"	"VSTM4"	"WASHC2A"
ENSG00000188611	ENSG00000198964	ENSG00000204147	ENSG00000185532	ENSG00000107984
"ASAH2"	"SGMS1"	"ASAH2B"	"PRKG1"	"DKK1"
ENSG00000122952	ENSG00000151151	ENSG00000072401	ENSG00000108064	ENSG00000122870
"ZWINT"	"IPMK"	"UBE2D1"	"TFAM"	"BICC1"
ENSG00000108091	ENSG00000151150	ENSG00000170312	ENSG00000196932	ENSG00000150347
"CCDC6"	"ANK3"	"CDK1"	"TMEM26"	"ARID5B"
ENSG00000182010	ENSG00000138311	ENSG00000181915	ENSG00000122877	ENSG00000171988
"RTKN2"	"ZNF365"	"ADO"	"EGR2"	"JMJD1C"
ENSG00000108176	ENSG00000096717	ENSG00000148634	ENSG00000138347	ENSG00000108187
"DNAJC12"	"SIRT1"	"HERC4"	"MYPN"	"PBLD"
ENSG00000096746	ENSG00000204130	ENSG00000122912	ENSG00000060339	ENSG00000107625
"HNRNPH3"	"RUFY2"	"SLC25A16"	"CCAR1"	"DDX50"
ENSG00000165732	ENSG00000198954	ENSG00000122862	ENSG00000122958	ENSG00000156502
"DDX21"	"KIFBP"	"SRGN"	"VPS26A"	"SUPV3L1"
ENSG00000156515	ENSG00000197467	ENSG00000042286	ENSG00000079332	ENSG00000180817
"HK1"	"COL13A1"	"AIFM2"	"SAR1A"	"PPA1"

ENSG00000172731	ENSG00000148730	ENSG00000166228	ENSG00000107731	ENSG00000198246
"LRRRC20"	"EIF4EBP2"	"PCBD1"	"UNC5B"	"SLC29A3"
ENSG00000107738	ENSG00000197746	ENSG00000122863	ENSG00000138303	ENSG00000166295
"VSIR"	"PSAP"	"CHST3"	"ASCC1"	"ANAPC16"
ENSG00000107745	ENSG00000122884	ENSG00000138286	ENSG00000213551	ENSG00000182180
"MICU1"	"P4HA1"	"FAM149B1"	"DNAJC9"	"MRPS16"
ENSG00000138279	ENSG00000166343	ENSG00000107758	ENSG00000166317	ENSG00000176986
"ANXA7"	"MSS51"	"PPP3CB"	"SYNP02L"	"SEC24C"
ENSG00000196968	ENSG00000214655	ENSG00000122861	ENSG00000222047	ENSG00000035403
"FUT11"	"ZSWIM8"	"PLAU"	"C10orf55"	"VCL"
ENSG00000156110	ENSG00000156650	ENSG00000156671	ENSG00000165655	ENSG00000151208
"ADK"	"KAT6B"	"SAMD8"	"ZNF503"	"DLG5"
ENSG00000148606	ENSG00000138326	ENSG00000253626	ENSG00000189129	ENSG00000122359
"POLR3A"	"RPS24"	"EIF5A1"	"PLAC9"	"ANXA11"
ENSG00000122378	ENSG00000108219	ENSG00000107771	ENSG00000122367	ENSG00000107779
"PRXL2A"	"TSPAN14"	"CCSER2"	"LDB3"	"BMPR1A"
ENSG00000173267	ENSG00000122376	ENSG00000107789	ENSG00000198682	ENSG00000138138
"SNCG"	"SHLD2"	"MINPP1"	"PAPSS2"	"ATAD1"
ENSG00000171862	ENSG00000138134	ENSG00000107796	ENSG00000026103	ENSG00000119922
"PTEN"	"STAMBPL1"	"ACTA2"	"FAS"	"IFIT2"
ENSG00000185745	ENSG00000152778	ENSG00000152779	ENSG00000152782	ENSG00000138182
"IFIT1"	"IFIT5"	"SLC16A12"	"PANK1"	"KIF20B"
ENSG00000148680	ENSG00000148677	ENSG00000180628	ENSG00000165338	ENSG00000119938
"HTR7"	"ANKRD1"	"PCGF5"	"HECTD2"	"PPP1R3C"
ENSG00000107854	ENSG00000095564	ENSG00000198060	ENSG00000119912	ENSG00000138160
"TNKS2"	"BTAF1"	"MARCHF5"	"IDE"	"KIF11"
ENSG00000152804	ENSG00000138190	ENSG00000138119	ENSG00000138180	ENSG00000148690
"HHEX"	"EXOC6"	"MYOF"	"CEP55"	"FRA10AC1"
ENSG00000138193	ENSG00000173145	ENSG00000119969	ENSG00000107438	ENSG00000059573
"PLCE1"	"NOC3L"	"HELLS"	"PDLIM1"	"ALDH18A1"
ENSG00000119977	ENSG00000138185	ENSG00000177853	ENSG00000077147	ENSG00000196233
"TCTN3"	"ENTPD1"	"ZNF518A"	"TM9SF3"	"LCOR"
ENSG00000155640	ENSG00000213390	ENSG00000165879	ENSG00000181274	ENSG00000052749
NA	"ARHGAP19"	"FRAT1"	"FRAT2"	"RRP12"
ENSG00000171314	ENSG00000171307	ENSG00000155229	ENSG00000165886	ENSG00000171160
"PGAM1"	"ZDHHC16"	"MMS19"	"UBTD1"	"MORN4"
ENSG00000155252	ENSG00000119986	ENSG00000155254	ENSG00000155256	ENSG00000166024
"PI4K2A"	"AVPI1"	"MARVELD1"	"ZFYVE27"	"R3HCC1L"
ENSG00000138131	ENSG00000119943	ENSG00000107521	ENSG00000119946	ENSG00000120053
"LOXL4"	"PYROXD2"	"HPS1"	"CNNM1"	"GOT1"
ENSG00000155287	ENSG00000198018	ENSG00000014919	ENSG00000107554	ENSG00000107566
"SLC25A28"	"ENTPD7"	"COX15"	"DNMBP"	"ERLIN1"
ENSG00000213341	ENSG00000196072	ENSG00000099194	ENSG00000166135	ENSG00000119906

"CHUK"	"BLOC1S2"	"SCD"	"HIF1AN"	"SLF2"
ENSG00000055950	ENSG00000107816	ENSG00000107819	ENSG00000107821	ENSG00000166167
"MRPL43"	"LZTS2"	"SFXN3"	"KAZALD1"	"BTRC"
ENSG00000107829	ENSG00000107833	ENSG00000198408	ENSG00000120029	ENSG00000166189
"FBXW4"	"NPM3"	"OGA"	"ARMH3"	"HPS6"
ENSG00000198728	ENSG00000148840	ENSG00000166197	ENSG00000119915	ENSG00000107862
"LDB1"	"PPRC1"	"NOLC1"	"ELOVL3"	"GBF1"
ENSG00000077150	ENSG00000107874	ENSG00000171206	ENSG00000138175	ENSG00000156398
"NFKB2"	"CUEDC2"	"TRIM8"	"ARL3"	"SFXN2"
ENSG00000166275	ENSG00000148842	ENSG00000076685	ENSG00000148798	ENSG00000156374
"BORCS7"	"CNNM2"	"NT5C2"	"INA"	"PCGF6"
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"GSTO2"	"ITPRIP"	"ADD3"	"MXI1"	"DUSP5"
ENSG00000108055	ENSG00000108061	ENSG00000119927	ENSG00000197142	ENSG00000165806
"SMC3"	"SHOC2"	"GPAM"	"ACSL5"	"CASP7"
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"DCLRE1A"	"AFAP1L2"	"ABLM1"	"FHIP2A"	"ATRNL1"
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"GFRA1"	"HSPA12A"	"SHTN1"	"PDZD8"	"CACUL1"
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"EIF3A"	"DENND10"	"SFXN4"	"PRDX3"	"GRK5"
ENSG00000148908	ENSG00000151929	ENSG00000197771	ENSG00000120008	ENSG00000138162
"RGS10"	"BAG3"	"MCMBP"	"WDR11"	"TACC2"
ENSG00000107679	ENSG00000166033	ENSG00000154473	ENSG00000189319	ENSG00000165660
"PLEKHA1"	"HTRA1"	"BUB3"	"FAM53B"	"ABRAXAS2"
ENSG00000019995	ENSG00000175029	ENSG00000188690	ENSG00000107949	ENSG00000089876
"ZRANB1"	"CTBP2"	"UROS"	"BCCIP"	"DHX32"
ENSG00000203780	ENSG00000148848	ENSG00000150760	ENSG00000132334	ENSG00000148773
"FANK1"	"ADAM12"	"DOCK1"	"PTPRE"	"MKI67"
ENSG00000151640	ENSG00000148814	ENSG00000130640	ENSG00000203772	ENSG00000120645
"DPYSL4"	"LRRC27"	"TUBGCP2"	"SPRN"	"IQSEC3"
ENSG00000073614	ENSG00000120647	ENSG00000060237	ENSG00000082805	ENSG00000111186
"KDM5A"	"CCDC77"	"WNK1"	"ERC1"	"WNT5B"
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"FBXL14"	"ADIPOR2"	"CACNA2D4"	"CACNA1C"	"FKBP4"
ENSG00000111203	ENSG00000111206	ENSG00000171792	ENSG00000078246	ENSG00000197905
"ITFG2"	"FOXN1"	"RHNO1"	"TULP3"	"TEAD4"
ENSG00000011105	ENSG00000111224	ENSG00000078237	ENSG00000047621	ENSG00000111247
"TSPAN9"	"PARP11"	"TIGAR"	"FERRY3"	"RAD51AP1"
ENSG00000185652	ENSG00000010278	ENSG00000067182	ENSG00000111321	ENSG00000111639
"NTF3"	"CD9"	"TNFRSF1A"	"LTBR"	"MRPL51"

ENSG00000010292	ENSG000000111640	ENSG00000010295	ENSG000000111641	ENSG000000111642
"NCAPD2"	"GAPDH"	"IFFO1"	"NOP2"	"CHD4"
ENSG000000111653	ENSG000000089693	ENSG000000159335	ENSG000000089692	ENSG000000250510
"ING4"	"MLF2"	"PTMS"	"LAG3"	"GPR162"
ENSG000000111665	ENSG000000111667	ENSG000000111669	ENSG000000111674	ENSG000000111678
"CDCA3"	"USP5"	"TPI1"	"ENO2"	"C12orf57"
ENSG000000126749	ENSG000000111684	ENSG000000182326	ENSG000000139182	ENSG000000139197
"EMG1"	"LPCAT3"	"C1S"	"CLSTN3"	"PEX5"
ENSG000000177675	ENSG000000173262	ENSG000000059804	ENSG000000065970	ENSG000000166532
"CD163L1"	"SLC2A14"	"SLC2A3"	"FOXJ2"	"RIMKLB"
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"PHC1"	"M6PR"	"A2M"	"CLEC2D"	"CD69"
ENSG000000110852	ENSG000000173391	ENSG000000139112	ENSG000000111196	ENSG000000060140
"CLEC2B"	"OLR1"	"GABARAPL1"	"MAGOHB"	"STYK1"
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"YBX3"	"ETV6"	"LRP6"	"DUSP16"	"CREBL2"
ENSG000000111276	ENSG000000178878	ENSG00000013588	ENSG00000013583	ENSG000000111305
"CDKN1B"	"APOLD1"	"GPC5A"	"HEBP1"	"GSG1"
ENSG000000246705	ENSG000000111348	ENSG000000151491	ENSG000000023734	ENSG000000023697
"H2AJ"	"ARHGDIB"	"EPS8"	"STRAP"	"DERA"
ENSG000000008394	ENSG000000052126	ENSG000000139154	ENSG000000172572	ENSG000000111711
"MGST1"	"PLEKHA5"	"AEBP2"	"PDE3A"	"GOLT1B"
ENSG000000111716	ENSG000000121361	ENSG000000069431	ENSG000000111726	ENSG000000111728
"LDHB"	"KCNJ8"	"ABCC9"	"CMAS"	"ST8SIA1"
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"C2CD5"	"ETNK1"	"SOX5"	"BCAT1"	"KRAS"
ENSG000000152936	ENSG000000123094	ENSG000000123096	ENSG000000064102	ENSG000000064115
"LMNTD1"	"RASSF8"	"SSPN"	"INTS13"	"TM7SF3"
ENSG000000152944	ENSG000000211455	ENSG000000029153	ENSG000000110841	ENSG000000061794
"MED21"	"STK38L"	"BMAL2"	"PPFIBP1"	"MRPS35"
ENSG000000087448	ENSG000000087494	ENSG000000123106	ENSG000000087502	ENSG000000187950
"KLHL42"	"PTHLH"	"CCDC91"	"ERGIC2"	"OVCH1"
ENSG000000133687	ENSG000000110888	ENSG000000110900	ENSG00000013573	ENSG000000139146
"TMT1C1"	"CAPRIN2"	"TSPAN11"	"DDX11"	"SINHCAF"
ENSG000000170456	ENSG000000151743	ENSG000000174718	ENSG000000139132	ENSG000000057294
"DENND5B"	"AMN1"	"RESF1"	"FGD4"	"PKP2"
ENSG000000175548	ENSG000000151229	ENSG00000018236	ENSG000000151233	ENSG00000015153
"ALG10B"	"SLC2A13"	"CNTN1"	"GXYLT1"	"YAF2"
ENSG000000139174	ENSG000000129317	ENSG000000198001	ENSG000000151239	ENSG000000139173
"PRICKLE1"	"PUS7L"	"IRAK4"	"TWF1"	"TMEM117"
ENSG000000177119	ENSG000000189079	ENSG000000111371	ENSG000000134294	ENSG000000139211
"ANO6"	"ARID2"	"SLC38A1"	"SLC38A2"	"AMIGO2"
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"RAPGEF3"	"SLC48A1"	"HDAC7"	"VDR"	"TMEM106C"
ENSG00000079387	ENSG000000152556	ENSG000000177981	ENSG000000167528	ENSG000000139620
"SENP1"	"PFKM"	"ASB8"	"ZNF641"	"KANSL2"
ENSG000000129315	ENSG000000174233	ENSG000000167535	ENSG000000174243	ENSG000000167548
"CCNT1"	"ADCY6"	"CACNB3"	"DDX23"	"KMT2D"
ENSG000000139636	ENSG000000123416	ENSG000000167552	ENSG000000167553	ENSG000000135451
"LMBR1L"	"TUBA1B"	"TUBA1A"	"TUBA1C"	"TROAP"
ENSG000000186897	ENSG000000178401	ENSG000000123352	ENSG000000110844	ENSG000000161791
"C1QL4"	"DNAJC22"	"SPATS2"	"PRPF40B"	"FMNL3"
ENSG000000139644	ENSG000000167566	ENSG000000161800	ENSG000000110881	ENSG000000178449
"TMBIM6"	"NCKAP5L"	"RACGAP1"	"ASIC1"	"COX14"
ENSG000000139624	ENSG000000050405	ENSG000000161813	ENSG000000066084	ENSG000000123268
"CERS5"	"LIMA1"	"LARP4"	"DIP2B"	"ATF1"
ENSG000000185432	ENSG000000110911	ENSG000000050426	ENSG000000110925	ENSG000000135457
"TMT1A"	"SLC11A2"	"LETMD1"	"CSRNP2"	"TFCP2"
ENSG000000184271	ENSG000000183283	ENSG000000170545	ENSG000000139629	ENSG000000050438
"POU6F1"	"DAZAP2"	"SMAGP"	"GALNT6"	"SLC4A8"
ENSG000000196876	ENSG000000139567	ENSG000000135503	ENSG000000161835	ENSG000000123358
"SCN8A"	"ACVRL1"	"ACVR1B"	"TAMALIN"	"NR4A1"
ENSG000000123395	ENSG000000167767	ENSG000000186442	ENSG000000170421	ENSG000000111057
"ATG101"	"KRT80"	"KRT3"	"KRT8"	"KRT18"
ENSG000000063046	ENSG000000111077	ENSG000000167778	ENSG000000139651	ENSG000000182544
"EIF4B"	"TNS2"	"SPRYD3"	"ZNF740"	"MFS5"
ENSG000000135476	ENSG000000123349	ENSG000000139637	ENSG000000094914	ENSG000000185591
"ESPL1"	"PFDN5"	"MYG1"	"AAAS"	"SP1"
ENSG000000139625	ENSG000000170653	ENSG00000012822	ENSG000000037965	ENSG000000094916
"MAP3K12"	"ATF7"	"CALCOCO1"	"HOXC8"	"CBX5"
ENSG000000135486	ENSG000000111481	ENSG000000161638	ENSG000000170439	ENSG000000135424
"HNRNPA1"	"COPZ1"	"ITGA5"	"TMT1B"	"ITGA7"
ENSG000000135437	ENSG000000135404	ENSG000000135414	ENSG000000170473	ENSG000000065357
"RDH5"	"CD63"	"GDF11"	"PYM1"	"DGKA"
ENSG000000185664	ENSG000000123374	ENSG000000197728	ENSG000000170515	ENSG000000229117
"PMEL"	"CDK2"	"RPS26"	"PA2G4"	"RPL41"
ENSG000000135482	ENSG000000139641	ENSG000000196465	ENSG000000092841	ENSG000000139645
"ZC3H10"	"ESYT1"	"MYL6B"	"MYL6"	"ANKRD52"
ENSG000000135469	ENSG000000062485	ENSG000000257727	ENSG000000170581	ENSG000000111602
"COQ10A"	"CS"	"CNPY2"	"STAT2"	"TIMELESS"
ENSG000000076108	ENSG000000198056	ENSG000000166860	ENSG000000166886	ENSG000000166888
"BAZ2A"	"PRIM1"	"ZBTB39"	"NAB2"	"STAT6"
ENSG000000123384	ENSG000000182199	ENSG000000139269	ENSG000000111087	ENSG000000166986
"LRP1"	"SHMT2"	"INHBE"	"GLI1"	"MARS1"
ENSG000000166987	ENSG000000175203	ENSG000000155980	ENSG000000166908	ENSG000000178498
"MBD6"	"DCTN2"	"KIF5A"	"PIP4K2C"	"DTX3"

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"OS9"	"CDK4"	"MARCF9"	"METTL1"	"CTDSP2"
ENSG00000135655	ENSG00000111110	ENSG00000177990	ENSG00000196935	ENSG00000184575
"USP15"	"PPM1H"	"DPY19L2"	"SRGAP1"	"XPOT"
ENSG00000183735	ENSG00000153179	ENSG00000135677	ENSG00000174106	ENSG00000174099
"TBK1"	"RASSF3"	"GNS"	"LEMD3"	"MSRB3"
ENSG00000149948	ENSG00000139233	ENSG00000155957	ENSG00000111530	ENSG00000111581
"HMGA2"	"LLPH"	"TMBIM4"	"CAND1"	"NUP107"
ENSG00000135679	ENSG00000135678	ENSG00000166225	ENSG00000111596	ENSG00000127329
"MDM2"	"CPM"	"FRS2"	"CNOT2"	"PTPRB"
ENSG00000133858	ENSG00000139291	ENSG00000080371	ENSG00000121749	ENSG00000072657
"ZFC3H1"	"TMEM19"	"RAB21"	"TBC1D15"	"TRHDE"
ENSG00000253719	ENSG00000111615	ENSG00000139289	ENSG00000179941	ENSG00000091039
"ATXN7L3B"	"KRR1"	"PHLDA1"	"BBS10"	"OSBPL8"
ENSG00000186908	ENSG00000165891	ENSG00000067798	ENSG00000067715	ENSG00000177425
"ZDHHC17"	"E2F7"	"NAV3"	"SYT1"	"PAWR"
ENSG00000058272	ENSG00000139304	ENSG00000111052	ENSG00000127720	ENSG00000179104
"PPP1R12A"	"PTPRQ"	"LIN7A"	"METTL25"	"TMC2"
ENSG00000072041	ENSG00000231738	ENSG00000133640	ENSG00000139324	ENSG00000049130
"SLC6A15"	"TSPAN19"	"LRR1Q1"	"TMC3"	"KITLG"
ENSG00000139318	ENSG00000139323	ENSG00000070961	ENSG00000139329	ENSG00000011465
"DUSP6"	"POC1B"	"ATP2B1"	"LUM"	"DCN"
ENSG00000133639	ENSG00000102189	ENSG00000173598	ENSG00000177889	ENSG00000198015
"BTG1"	"EEA1"	"NUDT4"	"UBE2N"	"MRPL42"
ENSG00000120833	ENSG00000169372	ENSG00000136040	ENSG00000173588	ENSG00000184752
"SOCS2"	"CRADD"	"PLXNC1"	"CEP83"	"NDUFA12"
ENSG00000180263	ENSG00000028203	ENSG00000136014	ENSG00000074527	ENSG00000139343
"FGD6"	"VEZT"	"USP44"	"NTN4"	"SNRPF"
ENSG00000139350	ENSG00000120802	ENSG00000075415	ENSG00000185046	ENSG00000111647
"NEDD1"	"TMPD"	"SLC25A3"	"ANKS1B"	"BLTP3B"
ENSG00000075089	ENSG00000136021	ENSG00000139354	ENSG00000151572	ENSG00000120800
"ACTR6"	"SCYL2"	"GAS2L3"	"ANO4"	"UTP20"
ENSG00000111666	ENSG00000136048	ENSG00000120860	ENSG00000075188	ENSG00000185480
"CHPT1"	"DRAM1"	"WASHC3"	"NUP37"	"PARPBP"
ENSG00000111696	ENSG00000166598	ENSG00000204954	ENSG00000120820	ENSG00000111727
"NT5DC3"	"HSP90B1"	"UQCC6"	"GLT8D2"	"HCFC2"
ENSG00000120837	ENSG00000198431	ENSG00000171310	ENSG00000136052	ENSG00000136010
"NFYB"	"TXNRD1"	"CHST11"	"SLC41A2"	"ALDH1L2"
ENSG00000136051	ENSG00000136044	ENSG00000235162	ENSG00000074590	ENSG00000136026
"WASHC4"	"APPL2"	"C12orf75"	"NUAK1"	"CKAP4"
ENSG00000166046	ENSG00000013503	ENSG00000151135	ENSG00000008405	ENSG00000136045
"TCP11L2"	"POLR3B"	"TMEM263"	"CRY1"	"PWP1"
ENSG00000198855	ENSG00000075856	ENSG00000136003	ENSG00000183160	ENSG00000110876

"FICD"	"SART3"	"ISCU"	"TMEM119"	"SELPLG"
ENSG000000110880	ENSG000000076248	ENSG000000076555	ENSG000000110906	ENSG000000139438
"CORO1C"	"UNG"	"ACACB"	"KCTD10"	"FAM222A"
ENSG000000111199	ENSG000000139433	ENSG000000139437	ENSG000000139436	ENSG000000076513
"TRPV4"	"GLTP"	"TCHP"	"GIT2"	"ANKRD13A"
ENSG000000174456	ENSG000000174437	ENSG000000196510	ENSG000000204856	ENSG000000111237
"C12orf76"	"ATP2A2"	"ANAPC7"	"FAM216A"	"VPS29"
ENSG000000196850	ENSG000000186298	ENSG000000198324	ENSG000000111252	ENSG000000204842
"PTPC7"	"PPP1CC"	"PHETA1"	"SH2B3"	"ATXN2"
ENSG000000111275	ENSG000000089022	ENSG000000089248	ENSG000000111300	ENSG000000135148
"ALDH2"	"MAPKAPK5"	"ERP29"	"NAA25"	"TRAFD1"
ENSG000000173064	ENSG000000089009	ENSG000000179295	ENSG000000111331	ENSG000000123064
"HECTD4"	"RPL6"	"PTPN11"	"OAS3"	"DDX54"
ENSG000000139405	ENSG000000186815	ENSG000000089060	ENSG000000151176	ENSG000000122965
"RITA1"	"TPCN1"	"SLC8B1"	"PLBD2"	"RBM19"
ENSG000000089225	ENSG000000135111	ENSG000000111412	ENSG000000174989	ENSG000000111445
"TBX5"	"TBX3"	"SPRING1"	"FBXW8"	"RFC5"
ENSG000000176871	ENSG000000176834	ENSG000000089220	ENSG000000135090	ENSG000000111707
"WSB2"	"VSIG10"	"PEBP1"	"TAOK3"	"SUDS3"
ENSG000000152137	ENSG000000111725	ENSG000000122966	ENSG000000111737	ENSG000000089154
"HSPB8"	"PRKAB1"	"CIT"	"RAB35"	"GCN1"
ENSG000000089157	ENSG000000089159	ENSG000000170855	ENSG000000257218	ENSG000000088986
"RPLP0"	"PXN"	"TRIAP1"	"GATC"	"DYNLL1"
ENSG000000110871	ENSG000000022840	ENSG000000110917	ENSG000000175970	ENSG000000122971
"COQ5"	"RNF10"	"MLEC"	"UNC119B"	"ACADS"
ENSG000000157837	ENSG000000157895	ENSG000000089041	ENSG000000110931	ENSG000000089094
"SPPL3"	"C12orf43"	"P2RX7"	"CAMKK2"	"KDM2B"
ENSG000000188735	ENSG000000139718	ENSG000000158023	ENSG000000110987	ENSG000000175727
"TMEM120B"	"SETD1B"	"CFAP251"	"BCL7A"	"MLXIP"
ENSG000000139719	ENSG000000130779	ENSG000000033030	ENSG000000111011	ENSG000000184445
"VPS33A"	"CLIP1"	"ZCCHC8"	"RSRC2"	"KNTC1"
ENSG000000130787	ENSG000000139722	ENSG000000090975	ENSG000000111328	ENSG000000139697
"HIP1R"	"VPS37B"	"PITPNM2"	"CDK2AP1"	"SBN01"
ENSG000000183955	ENSG000000150977	ENSG000000086598	ENSG000000111361	ENSG000000111358
"KMT5A"	"RILPL2"	"TMED2"	"EIF2B1"	"GTF2H3"
ENSG000000168778	ENSG000000185344	ENSG000000119242	ENSG000000250091	ENSG000000179195
"TCTN2"	"ATP6VOA2"	"CCDC92"	"DNAH100S"	"ZNF664"
ENSG000000196498	ENSG000000073060	ENSG000000184992	ENSG000000081760	ENSG000000139364
"NCOR2"	"SCARB1"	"BRI3BP"	"AACS"	"TMEM132B"
ENSG000000139370	ENSG000000111450	ENSG000000132341	ENSG000000061936	ENSG000000198598
"SLC15A4"	"STX2"	"RAN"	"SFSWAP"	"MMP17"
ENSG000000183495	ENSG000000185163	ENSG000000184967	ENSG000000112787	ENSG000000177084
"EP400"	"DDX51"	"NOC4L"	"FBRSL1"	"POLE"

ENSG00000176894	ENSG00000072609	ENSG00000196458	ENSG00000198393	ENSG00000198040
"PXMP2"	"CHFR"	"ZNF605"	"ZNF26"	"ZNF84"
ENSG00000196387	ENSG00000256223	ENSG00000196199	ENSG00000121741	ENSG00000121743
"ZNF140"	"ZNF10"	"MPHOSPH8"	"ZMYM2"	"GJA3"
ENSG00000132953	ENSG00000150457	ENSG00000165480	ENSG00000151835	ENSG00000127863
"XP04"	"LATS2"	"SKA3"	"SACS"	"TNFRSF19"
ENSG00000027001	ENSG00000182957	ENSG00000151846	ENSG00000180730	ENSG00000127870
"MIPEP"	"SPATA13"	"PABPC3"	"SHISA2"	"RNF6"
ENSG00000132970	ENSG00000152484	ENSG00000122026	ENSG00000122034	ENSG00000139517
"WASF3"	"USP12"	"RPL21"	"GTF3A"	"LNX2"
ENSG00000186184	ENSG00000152520	ENSG00000102755	ENSG00000132963	ENSG00000139514
"POLR1D"	"PAN3"	"FLT1"	"POMP"	"SLC7A1"
ENSG00000122042	ENSG00000102781	ENSG00000189403	ENSG00000132952	ENSG00000102802
"UBL3"	"KATNAL1"	"HMGB1"	"USPL1"	"MEDAG"
ENSG00000120694	ENSG00000187676	ENSG00000073910	ENSG00000139618	ENSG00000139597
"HSPH1"	"B3GLCT"	"FRY"	"BRCA2"	"N4BP2L1"
ENSG00000083642	ENSG00000133121	ENSG00000133119	ENSG00000172915	ENSG00000133104
"PDS5B"	"STARD13"	"RFC3"	"NBEA"	"SPART"
ENSG00000133111	ENSG00000120697	ENSG00000120699	ENSG00000133110	ENSG00000133107
"RFXAP"	"ALG5"	"EXOSC8"	"POSTN"	"TRPC4"
ENSG00000120686	ENSG00000120685	ENSG00000183722	ENSG00000150907	ENSG00000102743
"UFM1"	"PROSER1"	"LHFPL6"	"FOXO1"	"SLC25A15"
ENSG00000120690	ENSG00000165572	ENSG00000120696	ENSG00000102780	ENSG00000023516
"ELF1"	"KBTBD6"	"KBTBD7"	"DGKH"	"AKAP11"
ENSG00000133106	ENSG00000120675	ENSG00000120658	ENSG00000179630	ENSG00000102804
"EPSTI1"	"DNAJC15"	"ENOX1"	"LACC1"	"TSC22D1"
ENSG00000180332	ENSG00000174032	ENSG00000123200	ENSG00000136141	ENSG00000139684
"KCTD4"	"SLC25A30"	"ZC3H13"	"LRCH1"	"ESD"
ENSG00000136143	ENSG00000136159	ENSG00000136156	ENSG00000139687	ENSG00000139679
"SUCLA2"	"NUDT15"	"ITM2B"	"RB1"	"LPAR6"
ENSG00000136161	ENSG00000102531	ENSG00000136147	ENSG00000102753	ENSG00000204977
"RCBTB2"	"FNDC3A"	"PHF11"	"KPNA3"	"TRIM13"
ENSG00000176124	ENSG00000136104	ENSG00000139668	ENSG00000253710	ENSG00000253797
"DLEU1"	"RNASEH2B"	"WDFY2"	"ALG11"	"UTP14C"
ENSG00000136114	ENSG00000136108	ENSG00000139675	ENSG00000165416	ENSG00000139734
"THSD1"	"CKAP2"	"HNRNPA1L2"	"SUGT1"	"DIAPH3"
ENSG00000184226	ENSG00000276644	ENSG00000204899	ENSG00000136122	ENSG00000083520
"PCDH9"	"DACH1"	"MZT1"	"BORA"	"DIS3"
ENSG00000083535	ENSG00000102554	ENSG00000118922	ENSG00000136111	ENSG00000118939
"PIBF1"	"KLF5"	"KLF12"	"TBC1D4"	"UCHL3"
ENSG00000136153	ENSG00000178695	ENSG00000005812	ENSG00000136160	ENSG00000136158
"LM07"	"KCTD12"	"FBXL3"	"EDNRB"	"SPRY2"
ENSG00000184564	ENSG00000183098	ENSG00000152749	ENSG00000125257	ENSG00000134874

"SLITRK6"	"GPC6"	"GPR180"	"ABCC4"	"DZIP1"
ENSG00000102580	ENSG00000102595	ENSG00000139793	ENSG00000125249	ENSG00000065150
"DNAJC3"	"UGGT2"	"MBNL2"	"RAP2A"	"IPO5"
ENSG00000102572	ENSG00000134882	ENSG00000125304	ENSG00000175198	ENSG00000134864
"STK24"	"UBAC2"	"TM9SF2"	"PCCA"	"GGACT"
ENSG00000102452	ENSG00000198542	ENSG00000134900	ENSG00000134901	ENSG00000204442
"NALCN"	"ITGBL1"	"TPP2"	"POGLUT2"	"NALF1"
ENSG00000174405	ENSG00000139826	ENSG00000102524	ENSG00000185950	ENSG00000187498
"LIG4"	"ABHD13"	"TNFSF13B"	"IRS2"	"COL4A1"
ENSG00000134871	ENSG00000134905	ENSG00000153487	ENSG00000088448	ENSG00000102606
"COL4A2"	"CARS2"	"ING1"	"ANKRD10"	"ARHGEF7"
ENSG00000126216	ENSG00000126218	ENSG00000126226	ENSG00000185896	ENSG00000150403
"TUBGCP3"	"F10"	"PCID2"	"LAMP1"	"TMC03"
ENSG00000198176	ENSG00000184497	ENSG00000183087	ENSG00000130177	ENSG00000169062
"TFDP1"	"TMEM255B"	"GAS6"	"CDC16"	"UPF3A"
ENSG00000198824	ENSG00000100814	ENSG00000129484	ENSG00000129566	ENSG00000100823
"CHAMP1"	"CCNB1IP1"	"PARP2"	"TEP1"	"APEX1"
ENSG00000165782	ENSG00000165801	ENSG00000165804	ENSG00000092199	ENSG00000129472
"PIP4P1"	"ARHGEF40"	"ZNF219"	"HNRNPC"	"RAB2B"
ENSG00000092203	ENSG00000165821	ENSG00000129562	ENSG00000100439	ENSG00000155463
"TOX4"	"SALL2"	"DAD1"	"ABHD4"	"OXA1L"
ENSG00000172590	ENSG00000157227	ENSG00000197324	ENSG00000100461	ENSG00000100462
"MRPL52"	"MMP14"	"LRP10"	"RBM23"	"PRMT5"
ENSG00000129474	ENSG00000139880	ENSG00000179933	ENSG00000092068	ENSG00000215271
"AJUBA"	"CDH24"	"C14orf119"	"SLC7A8"	NA
ENSG00000129473	ENSG00000100836	ENSG00000092096	ENSG00000136367	ENSG00000100889
"BCL2L2"	"PABPN1"	"SLC22A17"	"ZFX2"	"PCK2"
ENSG00000100897	ENSG00000092010	ENSG00000100908	ENSG00000092098	ENSG00000100926
"DCAF11"	"PSME1"	"EMC9"	"RNF31"	"TM9SF1"
ENSG00000092330	ENSG00000100949	ENSG00000157379	ENSG00000196943	ENSG00000213903
"TINF2"	"RABGGTA"	"DHRS1"	"NOP9"	"LTB4R"
ENSG00000100968	ENSG00000100441	ENSG00000168952	ENSG00000129480	ENSG00000151413
"NFATC4"	"KHNYN"	"STXBP6"	"DTD2"	"NUBPL"
ENSG00000151320	ENSG00000151322	ENSG00000165389	ENSG00000129518	ENSG00000165410
"AKAP6"	"NPAS3"	"SPTSSA"	"EAPP"	"CFL2"
ENSG00000198604	ENSG00000151327	ENSG00000092020	ENSG00000174373	ENSG00000151332
"BAZ1A"	"FAM177A1"	"PPP2R3C"	"RALGAPA1"	"MBIP"
ENSG00000183032	ENSG00000139874	ENSG00000176435	ENSG00000182400	ENSG00000100941
"SLC25A21"	"SSTR1"	"CLEC14A"	"TRAPPC6B"	"PNN"
ENSG00000150527	ENSG00000165355	ENSG00000165379	ENSG00000179454	ENSG00000198718
"MIA2"	"FBX033"	"LRFN5"	"KLHL28"	"TOGARAM1"
ENSG00000185246	ENSG00000100442	ENSG00000187790	ENSG00000129534	ENSG00000213741
"PRPF39"	"FKBP3"	"FANCM"	"MIS18BP1"	"RPS29"

ENSG00000165501	ENSG00000165502	ENSG00000165506	ENSG00000100479	ENSG00000165525
"LRR1"	"RPL36AL"	"DNAAF2"	"POLE2"	"NEMF"
ENSG00000012983	ENSG00000198513	ENSG00000151748	ENSG00000100503	ENSG00000100504
"MAP4K5"	"ATL1"	"SAV1"	"NIN"	"PYGL"
ENSG00000139921	ENSG00000139926	ENSG00000186469	ENSG00000087303	ENSG00000125384
"TMX1"	"FRMD6"	"GNG2"	"NID2"	"PTGER2"
ENSG00000087301	ENSG00000197930	ENSG00000198252	ENSG00000100522	ENSG00000073712
"TXNDC16"	"ERO1A"	"STYX"	"GNPNAT1"	"FERMT2"
ENSG00000100523	ENSG00000125378	ENSG00000100526	ENSG00000100528	ENSG00000197045
"DDHD1"	"BMP4"	"CDKN3"	"CNIH1"	"GMFB"
ENSG00000198554	ENSG00000168175	ENSG00000126787	ENSG00000178974	ENSG00000126775
"WDHD1"	"MAPK1IP1L"	"DLGAP5"	"FBX034"	"ATG14"
ENSG00000126777	ENSG00000139946	ENSG00000070269	ENSG00000070367	ENSG00000139977
"KTN1"	"PELI2"	"TMEM260"	"EXOC5"	"NAA30"
ENSG00000165617	ENSG00000100592	ENSG00000126790	ENSG00000050130	ENSG00000126773
"DACT1"	"DAAM1"	"L3HYPDH"	"JKAMP"	"PCNX4"
ENSG00000100612	ENSG00000100614	ENSG00000126778	ENSG00000139974	ENSG00000100644
"DHR57"	"PPM1A"	"SIX1"	"SLC38A6"	"HIF1A"
ENSG00000023608	ENSG00000140015	ENSG00000126785	ENSG00000126821	ENSG00000054654
"SNAPC1"	"KCNH5"	"RHOJ"	"SGPP1"	"SYNE2"
ENSG00000100714	ENSG00000089775	ENSG00000179841	ENSG00000126804	ENSG00000126803
"MTHFD1"	"ZBTB25"	"AKAP5"	"ZBTB1"	"HSPA2"
ENSG00000258289	ENSG00000125952	ENSG00000171723	ENSG00000072415	ENSG00000134001
"CHURC1"	"MAX"	"GPHN"	"PALS1"	"EIF2S1"
ENSG00000100568	ENSG00000072042	ENSG00000072121	ENSG00000185650	ENSG00000072110
"VTI1B"	"RDH11"	"ZFYVE26"	"ZFP36L1"	"ACTN1"
ENSG00000139990	ENSG00000081177	ENSG00000100626	ENSG00000100632	ENSG00000029364
"DCAF5"	"EXD2"	"GALNT16"	"ERH"	"SLC39A9"
ENSG00000100647	ENSG00000100650	ENSG00000198732	ENSG00000100731	ENSG00000197555
"SUSD6"	"SRSF5"	"SMOC1"	"PCNX1"	"SIPA1L1"
ENSG00000205683	ENSG00000119599	ENSG00000165861	ENSG00000080815	ENSG00000170468
"DPF3"	"DCAF4"	"ZFYVE1"	"PSEN1"	"RIOX1"
ENSG00000177465	ENSG00000176903	ENSG00000156030	ENSG00000119636	ENSG00000119711
"ACOT4"	"PNMA1"	"MIDEAS"	"BBOF1"	"ALDH6A1"
ENSG00000205659	ENSG00000119688	ENSG00000119655	ENSG00000119681	ENSG00000119682
"LIN52"	"ABCD4"	"NPC2"	"LTBP2"	"AREL1"
ENSG00000119689	ENSG00000119630	ENSG00000170348	ENSG00000170345	ENSG00000140044
"DLST"	"PGF"	"TMED10"	"FOS"	"JDP2"
ENSG00000119686	ENSG00000119685	ENSG00000133935	ENSG00000119699	ENSG00000089916
"FLVCR2"	"TTLL5"	"ERG28"	"TGFB3"	"GPATCH2L"
ENSG00000071246	ENSG00000119669	ENSG00000198894	ENSG00000009830	ENSG00000100580
"VASH1"	"IRF2BPL"	"CIPC"	"POMT2"	"TMED8"
ENSG00000100596	ENSG00000119705	ENSG00000100603	ENSG00000021645	ENSG00000211448

"SPTLC2"	"SLIRP"	"SNW1"	"NRXN3"	"DIO2"
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"CEP128"	"GTF2A1"	"SEL1L"	"FLRT2"	"GALC"
ENSG00000042317	ENSG00000070778	ENSG00000100722	ENSG00000165521	ENSG00000053254
"SPATA7"	"PTPN21"	"ZC3H14"	"EML5"	"FOXN3"
ENSG00000042088	ENSG00000100764	ENSG00000198668	ENSG00000165914	ENSG00000133943
"TDP1"	"PSMC1"	"CALM1"	"TTC7B"	"DGLUCY"
ENSG00000119714	ENSG00000100796	ENSG00000140092	ENSG00000066427	ENSG00000165934
"GPR68"	"PPP4R3A"	"FBLN5"	"ATXN3"	"CPSF2"
ENSG00000100600	ENSG00000066455	ENSG00000100605	ENSG00000165943	ENSG00000153485
"LGMN"	"GOLGA5"	"ITPK1"	"MOAP1"	"LYSET"
ENSG00000170270	ENSG00000012963	ENSG00000011114	ENSG00000100628	ENSG00000089737
"GON7"	"UBR7"	"BTBD7"	"ASB2"	"DDX24"
ENSG00000119632	ENSG00000119698	ENSG00000100697	ENSG00000176438	ENSG00000182512
"IFI27L2"	"PPP4R4"	"DICER1"	"SYNE3"	"GLRX5"
ENSG00000168398	ENSG00000066739	ENSG00000100744	ENSG00000090060	ENSG00000100749
"BDKRB2"	"ATG2B"	"GSKIP"	"PAPOLA"	"VRK1"
ENSG00000183576	ENSG00000090061	ENSG00000205476	ENSG00000066629	ENSG00000100811
"SETD3"	"CCNK"	"CCDC85C"	"EML1"	"YY1"
ENSG00000197119	ENSG00000140105	ENSG00000185559	ENSG00000197102	ENSG00000080824
"SLC25A29"	"WARS1"	"DLK1"	"DYNC1H1"	"HSP90AA1"
ENSG00000080823	ENSG00000100865	ENSG00000196663	ENSG00000198752	ENSG00000100664
"MOK"	"CINP"	"TECPR2"	"CDC42BPB"	"EIF5"
ENSG00000166170	ENSG00000126215	ENSG00000100711	ENSG00000088808	ENSG00000203485
"BAG5"	"XRCC3"	"ZFYVE21"	"PPP1R13B"	"INF2"
ENSG00000179627	ENSG00000099814	ENSG00000185567	ENSG00000170779	ENSG00000183828
"ZBTB42"	"CEP170B"	"AHNAK2"	"CDCA4"	"NUDT14"
ENSG00000184887	ENSG00000179364	ENSG00000182809	ENSG00000185347	ENSG00000170113
"BTBD6"	"PACS2"	"CRIP2"	"TEDC1"	"NIPA1"
ENSG00000273749	ENSG00000275835	ENSG00000254585	ENSG00000182636	ENSG00000128739
"CYFIP1"	"TUBGCP5"	"MAGEL2"	"NDN"	"SNRPN"
ENSG00000206190	ENSG00000186297	ENSG00000128731	ENSG00000034053	ENSG00000185115
"ATP10A"	"GABRA5"	"HERC2"	"APBA2"	"NSMCE3"
ENSG00000104067	ENSG00000187951	ENSG00000166912	ENSG00000169926	ENSG00000198826
"TJP1"	"LOC100288637"	"MTMR10"	"KLF13"	"ARHGAP11A"
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"SCG5"	"GREM1"	"FMN1"	"AVEN"	"EMC7"
ENSG00000134152	ENSG00000128463	ENSG00000140199	ENSG00000182117	ENSG00000176454
"KATNBL1"	"EMC4"	"SLC12A6"	"NOP10"	"LPCAT4"
ENSG00000175265	ENSG00000215252	ENSG00000198146	ENSG00000186073	ENSG00000134138
"GOLGA8A"	"GOLGA8B"	"ZNF770"	"CDIN1"	"MEIS2"
ENSG00000166068	ENSG00000171262	ENSG00000172575	ENSG00000137801	ENSG00000166073
"SPRED1"	"FAM98B"	"RASGRP1"	"THBS1"	"GPR176"

ENSG00000128829	ENSG00000140319	ENSG00000104081	ENSG00000156970	ENSG00000188549
"EIF2AK4"	"SRP14"	"BMF"	"BUB1B"	"CCDC9B"
ENSG00000128944	ENSG00000128928	ENSG00000169105	ENSG00000137812	ENSG00000051180
"KNSTRN"	"IVD"	"CHST14"	"KNL1"	"RAD51"
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"DNAJC17"	"ZFYVE19"	"SPINT1"	"VPS18"	"DLL4"
ENSG00000128965	ENSG00000128908	ENSG00000187446	ENSG00000104147	ENSG00000137804
"CHAC1"	"INO80"	"CHP1"	"OIP5"	"NUSAP1"
ENSG00000137806	ENSG00000137815	ENSG00000092445	ENSG00000174197	ENSG00000103966
"NDUFAF1"	"RTF1"	"TYRO3"	"MGA"	"EHD4"
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"VPS39"	"TMEM87A"	"ZNF106"	"LRRC57"	"HAUS2"
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"CDAN1"	"UBR1"	"ZSCAN29"	"TUBGCP4"	"TP53BP1"
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"MAP1A"	"PIIP5K1"	"PDIA3"	"MFAP1"	"WDR76"
ENSG00000171877	ENSG00000137770	ENSG00000104131	ENSG00000166710	ENSG00000185880
"FRMD5"	"CTDSPL2"	"EIF3J"	"B2M"	"TRIM69"
ENSG00000140263	ENSG00000138606	ENSG00000171763	ENSG00000104154	ENSG00000104164
"SORD"	"SHF"	"AFG2B"	"SLC30A4"	"BLOC1S6"
ENSG00000137767	ENSG00000137872	ENSG00000104177	ENSG00000128951	ENSG00000166147
"SQOR"	"SEMA6D"	"MYEF2"	"DUT"	"FBN1"
ENSG00000103995	ENSG00000255302	ENSG00000138593	ENSG00000166200	ENSG00000140285
"CEP152"	"EID1"	"SECISBP2L"	"COPS2"	"FGF7"
ENSG00000104047	ENSG00000104043	ENSG00000092439	ENSG00000081014	ENSG00000104093
"DTWD1"	"ATP8B4"	"TRPM7"	"AP4E1"	"DMXL2"
ENSG00000140280	ENSG00000128872	ENSG00000138594	ENSG00000069956	ENSG00000197535
"LYSMD2"	"TMOD2"	"TMOD3"	"MAPK6"	"MYO5A"
ENSG00000128989	ENSG00000047346	ENSG00000137766	ENSG00000171016	ENSG00000138587
"ARPP19"	"ATOSA"	"UNC13C"	"PYGO1"	"MNS1"
ENSG00000140262	ENSG00000255529	ENSG00000137845	ENSG00000128923	ENSG00000157450
"TCF12"	"POLR2M"	"ADAM10"	"MINDY2"	"RNF111"
ENSG00000157456	ENSG00000157483	ENSG00000140299	ENSG00000182718	ENSG00000069667
"CCNB2"	"MYO1E"	"BNIP2"	"ANXA2"	"RORA"
ENSG00000129003	ENSG00000140416	ENSG00000103642	ENSG00000185088	ENSG00000166128
"VPS13C"	"TPM1"	"LACTB"	"RPS27L"	"RAB8B"
ENSG00000138613	ENSG00000074410	ENSG00000166797	ENSG00000166794	ENSG00000169118
"APH1B"	"CA12"	"CIAO2A"	"PPIB"	"CSNK1G1"
ENSG00000166803	ENSG00000103671	ENSG00000180357	ENSG00000180304	ENSG00000166831
"PCLAF"	"TRIP4"	"ZNF609"	"OAZ2"	"RBPMS2"
ENSG00000140451	ENSG00000241839	ENSG00000090487	ENSG00000103707	ENSG00000138617
"PIF1"	"PLEKHO2"	"SPG21"	"MTFMT"	"PARP16"
ENSG00000074603	ENSG00000074696	ENSG00000138614	ENSG00000074621	ENSG00000166938

"DPP8"	"HACD3"	"INTS14"	"SLC24A1"	"DIS3L"
ENSG00000075131	ENSG000000169032	ENSG000000174446	ENSG000000174444	ENSG000000174442
"TIPIN"	"MAP2K1"	"SNAPC5"	"RPL4"	"ZWILCH"
ENSG000000188501	ENSG000000166949	ENSG000000103591	ENSG000000137764	ENSG000000033800
"LCTL"	"SMAD3"	"AAGAB"	"MAP2K5"	"PIAS1"
ENSG000000128973	ENSG000000169018	ENSG000000137809	ENSG000000103647	ENSG000000140350
"CLN6"	"FEM1B"	"ITGA11"	"CORO2B"	"ANP32A"
ENSG000000138604	ENSG000000137819	ENSG000000137807	ENSG000000137818	ENSG000000140332
"GLCE"	"PAQR5"	"KIF23"	"RPLP1"	"TLE3"
ENSG000000137831	ENSG000000166173	ENSG000000137821	ENSG000000187720	ENSG000000067225
"UACA"	"LARP6"	"LRRC49"	"THSD4"	"PKM"
ENSG000000137817	ENSG000000213614	ENSG000000159322	ENSG000000067141	ENSG000000103855
"PARP6"	"HEXA"	"ADPGK"	"NEO1"	"CD276"
ENSG000000129038	ENSG000000067221	ENSG000000140464	ENSG000000138623	ENSG000000179335
"LOXL1"	"STOML1"	"PML"	"SEMA7A"	"CLK3"
ENSG000000179151	ENSG000000140465	ENSG000000103653	ENSG000000140474	ENSG000000140497
"EDC3"	"CYP1A1"	"CSK"	"ULK3"	"SCAMP2"
ENSG000000178802	ENSG000000178761	ENSG000000198794	ENSG000000169410	ENSG000000169371
"MPI"	"FAM219B"	"SCAMP5"	"PTPN9"	"SNUPN"
ENSG000000177971	ENSG000000173548	ENSG000000173546	ENSG000000140367	ENSG000000167196
"IMP3"	"SNX33"	"CSPG4"	"UBE2Q2"	"FBX022"
ENSG000000140374	ENSG000000117906	ENSG000000140391	ENSG000000173517	ENSG000000167202
"ETFA"	"RCN2"	"TSPAN3"	"PEAK1"	"TBC1D2B"
ENSG000000166411	ENSG000000136381	ENSG000000188266	ENSG000000041357	ENSG000000136378
"IDH3A"	"IREB2"	"HYKK"	"PSMA4"	"ADAMTS7"
ENSG000000185787	ENSG000000086666	ENSG000000103876	ENSG000000172379	ENSG000000136379
"MORF4L1"	"ZFAND6"	"FAH"	"ARNT2"	"ABHD17C"
ENSG000000140406	ENSG000000172345	ENSG000000182774	ENSG000000103942	ENSG000000169612
"TLNRD1"	"STARD5"	"RPS17"	"HOMER2"	"RAMAC"
ENSG000000064726	ENSG000000136404	ENSG000000176371	ENSG000000140612	ENSG000000073417
"BTBD1"	"TM6SF1"	"ZSCAN2"	"SEC11A"	"PDE8A"
ENSG000000259494	ENSG000000181026	ENSG000000157766	ENSG000000140511	ENSG000000140545
"MRPL46"	"AEN"	"ACAN"	"HAPLN3"	"MFGE8"
ENSG000000140525	ENSG000000140521	ENSG000000140534	ENSG000000166813	ENSG000000166821
"FANCI"	"POLG"	"TICRR"	"KIF7"	"PEX11A"
ENSG000000157823	ENSG000000242498	ENSG000000140548	ENSG000000182054	ENSG000000185033
"AP3S2"	"ARPIN"	"ZNF710"	"IDH2"	"SEMA4B"
ENSG000000185043	ENSG000000182768	ENSG000000140575	ENSG000000140577	ENSG000000197299
"CIB1"	"NGRN"	"IQGAP1"	"CRTC3"	"BLM"
ENSG000000140564	ENSG000000182511	ENSG000000196547	ENSG000000184508	ENSG000000140553
"FURIN"	"FES"	"MAN2A2"	"HDDC3"	"UNC45A"
ENSG000000166965	ENSG000000198901	ENSG000000176463	ENSG000000140563	ENSG000000185551
"RCCD1"	"PRC1"	"SLC03A1"	"MCTP2"	"NR2F2"

ENSG00000140450	ENSG00000140443	ENSG00000182253	ENSG00000103852	ENSG00000068305
"ARRDC4"	"IGF1R"	"SYNM"	"TTC23"	"MEF2A"
ENSG00000183060	ENSG00000184254	ENSG00000131871	ENSG00000131876	ENSG00000184277
"LYSMD4"	"ALDH1A3"	"SELENOS"	"SNRPA1"	"TM2D3"
ENSG00000185418	ENSG00000161981	ENSG00000007384	ENSG00000103152	ENSG00000103148
"TARS3"	"SNRNP25"	"RHBD1"	"MPG"	"NPRL3"
ENSG00000007392	ENSG00000167930	ENSG00000076344	ENSG00000103126	ENSG00000086504
"LUC7L"	"FAM234A"	"RGS11"	"AXIN1"	"MRPL28"
ENSG00000129925	ENSG00000103202	ENSG00000242612	ENSG00000090565	ENSG00000103326
"PGAP6"	"NME4"	"DECR2"	"RAB11FIP3"	"CAPN15"
ENSG00000007541	ENSG00000257108	ENSG00000197562	ENSG00000103266	ENSG00000127580
"PIGQ"	"NHLRC4"	"RAB40C"	"STUB1"	"WDR24"
ENSG00000127585	ENSG00000103260	ENSG00000103253	ENSG00000007376	ENSG00000127586
"FBXL16"	"METRN"	"HAGHL"	"RPUSD1"	"CHTF18"
ENSG00000103227	ENSG00000196557	ENSG00000103275	ENSG00000007516	ENSG00000090581
"LMF1"	"CACNA1H"	"UBE2I"	"BAIAP3"	"GNPTG"
ENSG00000059145	ENSG00000103249	ENSG00000100726	ENSG00000187535	ENSG00000131634
"UNKL"	"CLCN7"	"TELO2"	"IFT140"	"TMEM204"
ENSG00000206053	ENSG00000138834	ENSG00000074071	ENSG00000197774	ENSG00000095906
"JPT2"	"MAPK8IP3"	"MRPS34"	"EME2"	"NUBP2"
ENSG00000140990	ENSG00000140988	ENSG00000183751	ENSG00000167962	ENSG00000065054
"NDUFB10"	"RPS2"	"TBL3"	"ZNF598"	"NHERF2"
ENSG00000103197	ENSG00000008710	ENSG00000167965	ENSG00000184207	ENSG00000205937
"TSC2"	"PKD1"	"MLST8"	"PGP"	"RNPS1"
ENSG00000167972	ENSG00000162063	ENSG00000162062	ENSG00000162068	ENSG00000185883
"ABCA3"	"CCNF"	"TEDC2"	"NTN3"	"ATP6VOC"
ENSG00000162066	ENSG00000140992	ENSG00000167977	ENSG00000005001	ENSG00000162076
"AMDHD2"	"PDPK1"	"KCTD5"	"PRSS22"	"FLYWCH2"
ENSG00000059122	ENSG00000127564	ENSG00000006327	ENSG00000008517	ENSG00000085644
"FLYWCH1"	"PKMYT1"	"TNFRSF12A"	"IL32"	"ZNF213"
ENSG00000006194	ENSG00000140993	ENSG00000167981	ENSG00000122390	ENSG00000167984
"ZNF263"	"TIGD7"	"ZNF597"	"NAA60"	"NLRC3"
ENSG00000126602	ENSG00000005339	ENSG00000162104	ENSG00000126603	ENSG00000168140
"TRAP1"	"CREBBP"	"ADCY9"	"GLIS2"	"VASN"
ENSG00000103423	ENSG00000103415	ENSG00000153443	ENSG00000102858	ENSG00000168096
"DNAJA3"	"HMOX2"	"UBALD1"	"MGRN1"	"ANKS3"
ENSG00000103199	ENSG00000067836	ENSG00000140632	ENSG00000118900	ENSG00000118894
"ZNF500"	"ROGDI"	"GLYR1"	"UBN1"	"EEF2KMT"
ENSG00000183044	ENSG00000187555	ENSG00000182831	ENSG00000183454	ENSG00000213853
"ABAT"	"USP7"	"HAPSTR1"	"GRIN2A"	"EMP2"
ENSG00000175643	ENSG00000185338	ENSG00000189067	ENSG00000184602	ENSG00000153066
"RMI2"	"SOCS1"	"LITAF"	"SNN"	"TXNDC11"
ENSG00000171490	ENSG00000103342	ENSG00000048471	ENSG00000103381	ENSG00000186260

"RSL1D1"	"GSPT1"	"SNX29"	"CPPED1"	"MRTFB"
ENSG00000140694	ENSG00000103512	ENSG00000179889	ENSG00000166780	ENSG00000072864
"PARN"	"NOM01"	"PDXDC1"	"BMERB1"	"NDE1"
ENSG00000133392	ENSG00000103222	ENSG00000103489	ENSG00000170540	ENSG00000157106
"MYH11"	"ABCC1"	"XYLT1"	"ARL6IP1"	"SMG1"
ENSG00000170537	ENSG00000205730	ENSG00000103534	ENSG00000006007	ENSG00000103544
"TMC7"	"ITPRIPL2"	"TMC5"	"GDE1"	"VPS35L"
ENSG00000174628	ENSG00000167191	ENSG00000066654	ENSG00000196678	ENSG00000005189
"IQCK"	"GPRC5B"	"THUMPDI"	"ERI2"	"REX05"
ENSG00000188215	ENSG00000102897	ENSG00000011638	ENSG00000197006	ENSG00000140740
"DCUN1D3"	"LYRM1"	"LDAF1"	"METTL9"	"UQCRC2"
ENSG00000185716	ENSG00000103319	ENSG00000140743	ENSG00000103404	ENSG00000103365
"MOSMO"	"EEF2K"	"CDR2"	"USP31"	"GGA2"
ENSG00000103356	ENSG00000103353	ENSG00000083093	ENSG00000166847	ENSG00000166851
"EARS2"	"UBFD1"	"PALB2"	"DCTN5"	"PLK1"
ENSG00000122257	ENSG00000090905	ENSG00000140750	ENSG00000155592	ENSG00000077238
"RBBP6"	"TNRC6A"	"ARHGAP17"	"ZKSCAN2"	"IL4R"
ENSG00000103522	ENSG00000169180	ENSG00000188603	ENSG00000176046	ENSG00000184110
"IL21R"	"XPO6"	"CLN3"	"NUPR1"	"EIF3C"
ENSG00000176953	ENSG00000254206	ENSG00000079616	ENSG00000167371	ENSG00000013364
"NFATC2IP"	"NPIPBI1"	"KIF22"	"PRRT2"	"MVP"
ENSG00000103502	ENSG00000174938	ENSG00000174939	ENSG00000174943	ENSG00000149930
"CDIPT"	"SEZ6L2"	"ASPHD1"	"KCTD13"	"TAOK2"
ENSG00000149929	ENSG00000149925	ENSG00000149923	ENSG00000090238	ENSG00000102882
"HIRIP3"	"ALDOA"	"PPP4C"	"YPEL3"	"MAPK3"
ENSG00000102879	ENSG00000180035	ENSG00000179958	ENSG00000179918	ENSG00000169951
"CORO1A"	"ZNF48"	"DCTPP1"	"SEPHS2"	"ZNF764"
ENSG00000229809	ENSG00000197162	ENSG00000156853	ENSG00000080603	ENSG00000103549
"ZNF688"	"ZNF785"	"ZNF689"	"SRCAP"	"RNF40"
ENSG00000102870	ENSG00000099385	ENSG00000150281	ENSG00000099364	ENSG00000175938
"ZNF629"	"BCL7C"	"CTF1"	"FBXL19"	"ORAI3"
ENSG00000099381	ENSG00000099365	ENSG00000103496	ENSG00000167395	ENSG00000103507
"SETD1A"	"STX1B"	"STX4"	"ZNF646"	"BCKDK"
ENSG00000089280	ENSG00000103490	ENSG00000140691	ENSG00000140682	ENSG00000197302
"FUS"	"PYCARD"	"ARMC5"	"TGFB1I1"	"KRBOX5"
ENSG00000185947	ENSG00000171241	ENSG00000069329	ENSG00000091651	ENSG00000155330
"ZNF267"	"SHCBP1"	"VPS35"	"ORC6"	"C16orf87"
ENSG00000166123	ENSG00000069345	ENSG00000129636	ENSG00000102893	ENSG00000102935
"GPT2"	"DNAJA2"	"ITFG1"	"PHKB"	"ZNF423"
ENSG00000155393	ENSG00000121281	ENSG00000140807	ENSG00000103449	ENSG00000177200
"HEATR3"	"ADCY7"	"NKD1"	"SALL1"	"CHD9"
ENSG00000103479	ENSG00000166971	ENSG00000103494	ENSG00000140718	ENSG00000087245
"RBL2"	"AKTIP"	"RPGRIPI1L"	"FTO"	"MMP2"

ENSG00000087253	ENSG00000159461	ENSG00000167005	ENSG00000087263	ENSG00000125124
"LPCAT2"	"AMFR"	"NUDT21"	"OGFOD1"	"BBS2"
ENSG00000125148	ENSG00000169715	ENSG00000198417	ENSG00000187193	ENSG00000102900
"MT2A"	"MT1E"	"MT1F"	"MT1X"	"NUP93"
ENSG00000051108	ENSG00000140848	ENSG00000159579	ENSG00000102931	ENSG00000102934
"HERPUD1"	"CPNE2"	"RSPRY1"	"ARL2BP"	"PLLP"
ENSG00000006210	ENSG00000088682	ENSG00000135736	ENSG00000205336	ENSG00000140854
"CX3CL1"	"COQ9"	"CCDC102A"	"ADGRG1"	"KATNB1"
ENSG00000103005	ENSG00000102996	ENSG00000070761	ENSG00000070770	ENSG00000181938
"USB1"	"MMP15"	"CFAP20"	"CSNK2A2"	"GINS3"
ENSG00000103034	ENSG00000125107	ENSG00000103042	ENSG00000140937	ENSG00000166548
"NDRG4"	"CNOT1"	"SLC38A7"	"CDH11"	"TK2"
ENSG00000140931	ENSG00000172840	ENSG00000172831	ENSG00000125149	ENSG00000237172
"CMTM3"	"PDP2"	"CES2"	"PHAF1"	"B3GNT9"
ENSG00000102871	ENSG00000135722	ENSG00000196123	ENSG00000205250	ENSG00000168701
"TRADD"	"FBXL8"	"MATCAP1"	"E2F4"	"TMEM208"
ENSG00000135740	ENSG00000196155	ENSG00000159714	ENSG00000102974	ENSG00000124074
"SLC9A5"	"PLEKHG4"	"ZDHHC1"	"CTCF"	"ENKD1"
ENSG00000141098	ENSG00000141084	ENSG00000102901	ENSG00000038358	ENSG00000159792
"GFOD2"	"RANBP10"	"CENPT"	"EDC4"	"PSKH1"
ENSG00000205220	ENSG00000124067	ENSG00000072736	ENSG00000103066	ENSG00000103064
"PSMB10"	"SLC12A4"	"NFATC3"	"PLA2G15"	"SLC7A6"
ENSG00000103061	ENSG00000132600	ENSG00000103047	ENSG00000141076	ENSG00000168807
"SLC7A6OS"	"PRMT7"	"TANGO6"	"UTP4"	"SNTB2"
ENSG00000132612	ENSG00000132603	ENSG00000132604	ENSG00000103018	ENSG00000102908
"VPS4A"	"NIP7"	"TERF2"	"CYB5B"	"NFAT5"
ENSG00000181019	ENSG00000198373	ENSG00000090861	ENSG00000157350	ENSG00000103051
"NQO1"	"WWP2"	"AARS1"	"ST3GAL2"	"COG4"
ENSG00000189091	ENSG00000157368	ENSG00000132613	ENSG00000103043	ENSG00000180917
"SF3B3"	"IL34"	"MTSS2"	"VAC14"	"CMTR2"
ENSG00000172137	ENSG00000040199	ENSG00000166747	ENSG00000224470	ENSG00000102967
"CALB2"	"PHLPP2"	"AP1G1"	"ATXN1L"	"DHODH"
ENSG00000140836	ENSG00000168411	ENSG00000184517	ENSG00000050820	ENSG00000153774
"ZFHX3"	"RFWD3"	"ZFP1"	"BCAR1"	"CFDP1"
ENSG00000166822	ENSG00000205084	ENSG00000034713	ENSG00000065427	ENSG00000103111
"TMEM170A"	"TMEM231"	"GABARAPL2"	"KARS1"	"MON1B"
ENSG00000171724	ENSG00000166446	ENSG00000103121	ENSG00000166451	ENSG00000140905
"VAT1L"	"CDYL2"	"CMC2"	"CENPN"	"GCSH"
ENSG00000153815	ENSG00000086696	ENSG00000135698	ENSG00000230989	ENSG00000260300
"CMIP"	"HSD17B2"	"MPHOSPH6"	"HSBP1"	NA
ENSG00000140961	ENSG00000140943	ENSG00000103160	ENSG00000103168	ENSG00000103175
"OSGIN1"	"MBTPS1"	"HSDL1"	"TAF1C"	"WFDC1"
ENSG00000140950	ENSG00000103187	ENSG00000135686	ENSG00000103194	ENSG00000103196

"MEAK7"	"COTL1"	"KLHL36"	"USP10"	"CRISPLD2"
ENSG00000153786	ENSG00000135709	ENSG00000131149	ENSG00000131153	ENSG00000131148
"ZDHC7"	"KIAA0513"	"GSE1"	"GINS2"	"EMC8"
ENSG00000131143	ENSG00000103241	ENSG00000176692	ENSG00000176678	ENSG00000103264
"COX4I1"	"FOXF1"	"FOXC2"	"FOX11"	"FBX031"
ENSG00000140941	ENSG00000140948	ENSG00000104731	ENSG00000103257	ENSG00000225614
"MAP1LC3B"	"ZCCHC14"	"KLHDC4"	"SLC7A5"	"ZNF469"
ENSG00000179588	ENSG00000051523	ENSG00000174177	ENSG00000103335	ENSG00000167513
"ZFP11"	"CYBA"	"CTU2"	"PIEZ01"	"CDT1"
ENSG00000198931	ENSG00000167526	ENSG00000167523	ENSG00000185324	ENSG00000158792
"APRT"	"RPL13"	"SPATA33"	"CDK10"	"SPATA2L"
ENSG00000075399	ENSG00000158805	ENSG00000187741	ENSG00000204991	ENSG00000258947
"VPS9D1"	"ZNF276"	"FANCA"	"SPIRE2"	"TUBB3"
ENSG00000140995	ENSG00000177946	ENSG00000003249	ENSG00000141013	ENSG00000183688
"DEF8"	NA	"DBNDD1"	"GAS8"	"RFLNB"
ENSG00000141252	ENSG00000167695	ENSG00000179409	ENSG00000167693	ENSG00000159842
"VPS53"	"TLCD3A"	"GEMIN4"	"NXN"	"ABR"
ENSG00000108953	ENSG00000167193	ENSG00000197879	ENSG00000132376	ENSG00000167705
"YWHA"	"CRK"	"MYO1C"	"INPP5K"	"RILP"
ENSG00000174231	ENSG00000185561	ENSG00000167716	ENSG00000132383	ENSG00000177374
"PRPF8"	"TLCD2"	"WDR81"	"RPA1"	"HIC1"
ENSG00000070366	ENSG00000167720	ENSG00000167721	ENSG00000070444	ENSG00000040531
"SMG6"	"SRR"	"TSR1"	"MNT"	"CTNS"
ENSG00000213977	ENSG00000177602	ENSG00000074356	ENSG00000004660	ENSG00000074370
"TAX1BP3"	"HASPIN"	"NCBP3"	"CAMKK1"	"ATP2A3"
ENSG00000167740	ENSG00000132382	ENSG00000141456	ENSG00000141480	ENSG00000142507
"CYB5D2"	"MYBBP1A"	"PELP1"	"ARRB2"	"PSMB6"
ENSG00000129219	ENSG00000141503	ENSG00000108523	ENSG00000108518	ENSG00000108509
"PLD2"	"MINK1"	"RNF167"	"PFN1"	"CAMTA2"
ENSG00000129250	ENSG00000180787	ENSG00000167840	ENSG00000029725	ENSG00000108559
"KIF1C"	"ZFP3"	"ZNF232"	"RABEP1"	"NUP88"
ENSG00000129197	ENSG00000108561	ENSG00000072849	ENSG00000167842	ENSG00000129195
"RPAIN"	"C1QBP"	"DERL2"	"MIS12"	"PIMREG"
ENSG00000198920	ENSG00000108590	ENSG00000108839	ENSG00000141505	ENSG00000132535
"KIAA0753"	"MED31"	"ALOX12"	"ASGR1"	"DLG4"
ENSG00000072778	ENSG00000004975	ENSG00000040633	ENSG00000132507	ENSG00000215041
"ACADVL"	"DVL2"	"PHF23"	"EIF5A"	"NEURL4"
ENSG00000174292	ENSG00000169992	ENSG00000174282	ENSG00000259224	ENSG00000181222
"TNK1"	"NLGN2"	"ZBTB4"	"SLC35G6"	"POLR2A"
ENSG00000239697	ENSG00000129255	ENSG00000129245	ENSG00000141504	ENSG00000141510
"TNFSF12"	"MPDU1"	"FXR2"	"SAT2"	"TP53"
ENSG00000108947	ENSG00000132510	ENSG00000167874	ENSG00000170004	ENSG00000170037
"EFNB3"	"KDM6B"	"TMEM88"	"CHD3"	"CNTROB"

ENSG00000179111	ENSG00000179094	ENSG00000220205	ENSG00000196544	ENSG00000178999
"HES7"	"PER1"	"VAMP2"	"BORCS6"	"AURKB"
ENSG00000178971	ENSG00000178921	ENSG00000161970	ENSG00000166579	ENSG00000133026
"CTC1"	"PFAS"	"RPL26"	"NDEL1"	"MYH10"
ENSG00000065320	ENSG00000133028	ENSG00000170222	ENSG00000065559	ENSG00000141052
"NTN1"	"SCO1"	"ADPRM"	"MAP2K4"	"MYOCD"
ENSG00000006744	ENSG00000153976	ENSG00000109099	ENSG00000125409	ENSG00000221926
"ELAC2"	"HS3ST3A1"	"PMP22"	"TEKT3"	"TRIM16"
ENSG00000187607	ENSG00000170425	ENSG00000011295	ENSG00000141027	ENSG00000166582
"ZNF286A"	"ADORA2B"	"TTC19"	"NCOR1"	"CENPV"
ENSG00000187688	ENSG00000154803	ENSG00000141030	ENSG00000072310	ENSG00000175662
"TRPV2"	"FLCN"	"COPS3"	"SREBF1"	"TOM1L2"
ENSG00000141034	ENSG00000177731	ENSG00000176994	ENSG00000176974	ENSG00000249459
"GID4"	"FLII"	"SMCR8"	"SHMT1"	NA
ENSG00000141127	ENSG00000188522	ENSG00000108641	ENSG00000166482	ENSG00000128482
"PRPSAP2"	"FAM83G"	"B9D1"	"MFAP4"	"RNF112"
ENSG00000083290	ENSG00000124422	ENSG00000109016	ENSG00000274180	ENSG00000034152
"ULK2"	"USP22"	"DHRS7B"	"NATD1"	"MAP2K3"
ENSG00000212719	ENSG00000168961	ENSG00000109083	ENSG00000109079	ENSG00000004142
"LINC02693"	"LGALS9"	"IFT20"	"TNFAIP1"	"POLDIP2"
ENSG00000244045	ENSG00000004139	ENSG00000076351	ENSG00000087111	ENSG00000076382
"TMEM199"	"SARM1"	"SLC46A1"	"PIGS"	"SPAG5"
ENSG00000132581	ENSG00000109113	ENSG00000198242	ENSG00000160602	ENSG00000076604
"SDF2"	"RAB34"	"RPL23A"	"NEK8"	"TRAF4"
ENSG00000173065	ENSG00000132591	ENSG00000132589	ENSG00000109118	ENSG00000196535
"FAM222B"	"ERAL1"	"FLOT2"	"PHF12"	"MYO18A"
ENSG00000108256	ENSG00000160551	ENSG00000167543	ENSG00000108262	ENSG00000198720
"NUFIP2"	"TAOK1"	"TP53I13"	"GIT1"	"ANKRD13B"
ENSG00000167549	ENSG00000141298	ENSG00000108578	ENSG00000108582	ENSG00000108587
"CORO6"	"SSH2"	"BLMH"	"CPD"	"GOSR1"
ENSG00000176390	ENSG00000176208	ENSG00000184060	ENSG00000181481	ENSG00000196712
"CRLF3"	"ATAD5"	"ADAP2"	"RNF135"	"NF1"
ENSG00000126860	ENSG00000131242	ENSG00000172301	ENSG00000178691	ENSG00000126858
"EVI2A"	"RAB11FIP4"	"COPRS"	"SUZ12"	"RHOT1"
ENSG00000010244	ENSG00000108671	ENSG00000176749	ENSG00000176658	ENSG00000006042
"ZNF207"	"PSMD11"	"CDK5R1"	"MYO1D"	"TMEM98"
ENSG00000198783	ENSG00000005156	ENSG00000092871	ENSG00000185379	ENSG00000073536
"ZNF830"	"LIG3"	"RFFL"	"RAD51D"	"NLE1"
ENSG00000166750	ENSG00000172716	ENSG00000154760	ENSG00000108733	ENSG00000006125
"SLFN5"	"SLFN11"	"SLFN13"	"PEX12"	"AP2B1"
ENSG00000270885	ENSG00000273611	ENSG00000278259	ENSG00000278540	ENSG00000276234
"RASL10B"	"ZNHIT3"	"MYO19"	"ACACA"	"TADA2A"
ENSG00000276023	ENSG00000275066	ENSG00000278053	ENSG00000278845	ENSG00000274211

"DUSP14"	"SYNRG"	"DDX52"	"MRPL45"	"SOCS7"
ENSG000000275832	ENSG000000275023	ENSG000000277258	ENSG000000002834	ENSG000000067191
"ARHGAP23"	"MLLT6"	"PCGF2"	"LASP1"	"CACNB1"
ENSG000000108298	ENSG000000108306	ENSG000000125686	ENSG000000167258	ENSG000000131748
"RPL19"	"FBXL20"	"MED1"	"CDK12"	"STARD3"
ENSG000000141736	ENSG000000141741	ENSG000000108344	ENSG000000108342	ENSG000000126351
"ERBB2"	"MIEN1"	"PSMD3"	"CSF3"	"THRA"
ENSG000000126368	ENSG000000108349	ENSG000000171475	ENSG000000094804	ENSG000000131759
"NR1D1"	"CASC3"	"WIPF2"	"CDC6"	"RARA"
ENSG000000131747	ENSG000000141753	ENSG000000073584	ENSG000000221852	ENSG000000188581
"TOP2A"	"IGFBP4"	"SMARCE1"	"KRTAP1-5"	"KRTAP1-1"
ENSG000000212724	ENSG000000213416	ENSG000000131737	ENSG000000171346	ENSG000000171345
"KRTAP2-3"	"KRTAP4-12"	"KRT34"	"KRT15"	"KRT19"
ENSG000000173812	ENSG000000173805	ENSG000000173801	ENSG000000141756	ENSG000000131473
"EIF1"	"HAP1"	"JUP"	"FKBP10"	"ACLY"
ENSG000000173786	ENSG000000168259	ENSG000000168256	ENSG000000108773	ENSG000000108774
"CNP"	"DNAJC7"	"NKIRAS2"	"KAT2A"	"RAB5C"
ENSG000000173757	ENSG000000126561	ENSG000000168610	ENSG000000177469	ENSG000000033627
"STAT5B"	"STAT5A"	"STAT3"	"CAVIN1"	"ATP6V0A1"
ENSG000000108784	ENSG000000108786	ENSG000000068120	ENSG000000108788	ENSG000000131470
"NAGLU"	"HSD17B1"	"COASY"	"MLX"	"PSMC3IP"
ENSG000000141699	ENSG000000131462	ENSG000000037042	ENSG000000108797	ENSG000000126562
"RETREG3"	"TUBG1"	"TUBG2"	"CNTNAP1"	"WNK4"
ENSG000000126581	ENSG000000131480	ENSG000000267060	ENSG000000131469	ENSG000000108828
"BECN1"	"AOC2"	"PTGES3L"	"RPL27"	"VAT1"
ENSG000000108830	ENSG000000012048	ENSG000000188554	ENSG000000184988	ENSG000000175906
"RND2"	"BRCA1"	"NBR1"	"TMEM106A"	"ARL4D"
ENSG000000067596	ENSG000000175832	ENSG000000108861	ENSG000000108852	ENSG000000091947
"DHX8"	"ETV4"	"DUSP3"	"MPP2"	"TMEM101"
ENSG000000141349	ENSG000000108840	ENSG000000125319	ENSG000000087152	ENSG000000013306
"G6PC3"	"HDAC5"	"HROB"	"ATXN7L3"	"SLC25A39"
ENSG000000030582	ENSG000000161682	ENSG000000180340	ENSG000000161692	ENSG000000182963
"GRN"	"FAM171A2"	"FZD2"	"DBF4B"	"GJC1"
ENSG000000186185	ENSG000000136448	ENSG000000186834	ENSG00000006062	ENSG000000159314
"KIF18B"	"NMT1"	"HEXIM1"	"MAP3K14"	"ARHGAP27"
ENSG000000225190	ENSG000000073969	ENSG000000004897	ENSG000000141279	ENSG000000108424
"PLEKHM1"	"NSF"	"CDC27"	"NPEPPS"	"KPNB1"
ENSG00000006025	ENSG000000189120	ENSG000000167182	ENSG000000108439	ENSG000000005243
"OSBPL7"	"SP6"	"SP2"	"PNP0"	"COPZ2"
ENSG000000082641	ENSG000000108468	ENSG000000173917	ENSG000000120093	ENSG000000120075
"NFE2L1"	"CBX1"	"HOXB2"	"HOXB3"	"HOXB5"
ENSG000000260027	ENSG000000136436	ENSG000000159199	ENSG000000159202	ENSG000000159217
"HOXB7"	"CALCOCO2"	"ATP5MC1"	"UBE2Z"	"IGF2BP1"

ENSG00000167085	ENSG00000121067	ENSG00000121073	ENSG00000005882	ENSG00000167100
"PHB1"	"SPOP"	"SLC35B1"	"PDK2"	"SAMD14"
ENSG00000108819	ENSG00000108821	ENSG00000154920	ENSG00000108829	ENSG00000167107
"PPP1R9B"	"COL1A1"	"EME1"	"LRRC59"	"ACSF2"
ENSG00000108846	ENSG00000154945	ENSG00000108848	ENSG00000141232	ENSG00000239672
"ABCC3"	"ANKRD40"	"LUC7L3"	"TOB1"	"NME1"
ENSG00000011258	ENSG00000011260	ENSG00000141198	ENSG00000108960	ENSG00000141179
"MBTD1"	"UTP18"	"TOM1L1"	"MMD"	"PCTP"
ENSG00000183691	ENSG00000153933	ENSG00000121060	ENSG00000121064	ENSG00000181610
"NOG"	"DGKE"	"TRIM25"	"SCPEP1"	"MRPS23"
ENSG00000180891	ENSG00000136451	ENSG00000136450	ENSG00000264364	ENSG00000011143
"CUEDC1"	"VEZF1"	"SRSF1"	"DYNLL2"	"MKS1"
ENSG00000108389	ENSG00000108384	ENSG00000108395	ENSG00000182628	ENSG00000068489
"MTMR4"	"RAD51C"	"TRIM37"	"SKA2"	"PRR11"
ENSG00000153982	ENSG00000175155	ENSG00000062716	ENSG00000108443	ENSG00000068097
"GDPD1"	"YPEL2"	"VMP1"	"RPS6KB1"	"HEATR6"
ENSG00000170832	ENSG00000062725	ENSG00000170836	ENSG00000141376	ENSG00000121068
"USP32"	"APPBP2"	"PPM1D"	"BCAS3"	"TBX2"
ENSG00000136492	ENSG00000108510	ENSG00000087995	ENSG00000146872	ENSG00000011028
"BRIP1"	"MED13"	"METTL2A"	"TLK2"	"MRC2"
ENSG00000170921	ENSG00000008283	ENSG00000159640	ENSG00000173826	ENSG00000136485
"TANC2"	"CYB561"	"ACE"	"KCNH6"	"DCAF7"
ENSG00000198909	ENSG00000136490	ENSG00000108604	ENSG00000178607	ENSG00000136478
"MAP3K3"	"LIMD2"	"SMARCD2"	"ERN1"	"TEX2"
ENSG00000108654	ENSG00000108854	ENSG00000120063	ENSG00000154240	ENSG00000154229
"DDX5"	"SMURF2"	"GNA13"	"CEP112"	"PRKCA"
ENSG00000198265	ENSG00000154217	ENSG00000130935	ENSG00000182481	ENSG00000108932
"HELZ"	"PITPNC1"	"NOL11"	"KPNA2"	"SLC16A6"
ENSG00000070540	ENSG00000108946	ENSG00000154262	ENSG00000125398	ENSG00000133195
"WIPI1"	"PRKAR1A"	"ABCA6"	"SOX9"	"SLC39A11"
ENSG00000180616	ENSG00000166685	ENSG00000133193	ENSG00000179604	ENSG00000172809
"SSTR2"	"COG1"	"VCF1"	"CDC42EP4"	"RPL38"
ENSG00000141540	ENSG00000170412	ENSG00000161513	ENSG00000109089	ENSG00000180901
"TTYH2"	"GPRC5C"	"FDXR"	"CDR2L"	"KCTD2"
ENSG00000189159	ENSG00000125450	ENSG00000125447	ENSG00000125445	ENSG00000177885
"JPT1"	"NUP85"	"GGA3"	"MRPS7"	"GRB2"
ENSG00000177728	ENSG00000266714	ENSG00000108479	ENSG00000132475	ENSG00000132478
"TMEM94"	"MYO15B"	"GALK1"	"H3-3B"	"UNK"
ENSG00000132471	ENSG00000132481	ENSG00000141569	ENSG00000188878	ENSG00000161533
"WBP2"	"TRIM47"	"TRIM65"	"FBF1"	"ACOX1"
ENSG00000167881	ENSG00000186919	ENSG00000182473	ENSG00000185262	ENSG00000161542
"SRP68"	"ZACN"	"EXOC7"	"UBALD2"	"PRPSAP1"
ENSG00000175931	ENSG00000129667	ENSG00000161544	ENSG00000182534	ENSG00000181038

"UBE20"	"RHBDF2"	"CYGB"	"MXRA7"	"METTL23"
ENSG00000161547	ENSG00000092931	ENSG00000129657	ENSG00000184640	ENSG00000078687
"SRSF2"	"MFSD11"	"SEC14L1"	"SEPTIN9"	"TNRC6C"
ENSG00000108639	ENSG00000167900	ENSG00000183077	ENSG00000089685	ENSG00000184557
"SYNGR2"	"TK1"	"AFMID"	"BIRC5"	"SOCS3"
ENSG00000087157	ENSG00000108669	ENSG00000055483	ENSG00000108679	ENSG00000171302
"PGS1"	"CYTH1"	"USP36"	"LGALS3BP"	"CANT1"
ENSG00000173918	ENSG00000167291	ENSG00000141519	ENSG00000171298	ENSG00000181523
"C1QTNF1"	"TBC1D16"	"CCDC40"	"GAA"	"SGSH"
ENSG00000181045	ENSG00000173818	ENSG00000171246	ENSG00000141564	ENSG00000141577
"SLC26A11"	"ENDOV"	"NPTX1"	"RPTOR"	"CEP131"
ENSG00000157637	ENSG00000266074	ENSG00000184009	ENSG00000185504	ENSG00000204237
"SLC38A10"	"BAHCC1"	"ACTG1"	"FAAP100"	"OXLD1"
ENSG00000183048	ENSG00000225663	ENSG00000185624	ENSG00000183684	ENSG00000185813
"SLC25A10"	"MCRIP1"	"P4HB"	"ALYREF"	"PCYT2"
ENSG00000197063	ENSG00000183010	ENSG00000169750	ENSG00000169727	ENSG00000169710
"MAFG"	"PYCR1"	"RAC3"	"GPS1"	"FASN"
ENSG00000176155	ENSG00000141526	ENSG00000141551	ENSG00000141574	ENSG00000181396
"CCDC57"	"SLC16A3"	"CSNK1D"	"SECTM1"	"OGFOD3"
ENSG00000169660	ENSG00000178927	ENSG00000141562	ENSG00000141560	ENSG00000175711
"HEXD"	"CYBC1"	"NARF"	"FN3KRP"	"B3GNTL1"
ENSG00000176845	ENSG00000101557	ENSG00000079134	ENSG00000158270	ENSG00000176890
"METRNL"	"USP14"	"THOC1"	"COLEC12"	"TYMS"
ENSG00000176105	ENSG00000080986	ENSG00000101596	ENSG00000132205	ENSG00000101577
"YES1"	"NDC80"	"SMCHD1"	"EMILIN2"	"LPIN2"
ENSG00000101608	ENSG00000118680	ENSG00000177426	ENSG00000082397	ENSG00000206432
"MYL12A"	"MYL12B"	"TGIF1"	"EPB41L3"	"TMEM200C"
ENSG00000088756	ENSG00000101680	ENSG00000173482	ENSG00000206418	ENSG00000168502
"ARHGAP28"	"LAMA1"	"PTPRM"	"RAB12"	"MTCL1"
ENSG00000101745	ENSG00000128791	ENSG00000017797	ENSG00000154845	ENSG00000168461
"ANKRD12"	"TWSG1"	"RALBP1"	"PPP4R1"	"RAB31"
ENSG00000101558	ENSG00000154856	ENSG00000134265	ENSG00000154864	ENSG00000141404
"VAPA"	"APCDD1"	"NAPG"	"PIEZO2"	"GNAL"
ENSG00000255112	ENSG00000154889	ENSG00000141401	ENSG00000176014	ENSG00000141391
"CHMP1B"	"MPPE1"	"IMPA2"	"TUBB6"	"PRELID3A"
ENSG00000134278	ENSG00000101624	ENSG00000175354	ENSG00000085415	ENSG00000101639
"SPIRE1"	"CEP76"	"PTPN2"	"SEH1L"	"CEP192"
ENSG00000101654	ENSG00000175322	ENSG00000067900	ENSG00000141446	ENSG00000101752
"RNMT"	"ZNF519"	"ROCK1"	"ESCO1"	"MIB1"
ENSG00000141448	ENSG00000101773	ENSG00000134508	ENSG00000101782	ENSG00000141458
"GATA6"	"RBBP8"	"CABLES1"	"RIOK3"	"NPC1"
ENSG00000154065	ENSG00000198795	ENSG00000141380	ENSG00000046604	ENSG00000153339
"ANKRD29"	"ZNF521"	"SS18"	"DSG2"	"TRAPPC8"

ENSG00000134758	ENSG00000141441	ENSG00000141431	ENSG00000134769	ENSG00000166974
"RNF138"	"GAREM1"	"ASXL3"	"DTNA"	"MAPRE2"
ENSG00000186812	ENSG00000186814	ENSG00000172466	ENSG00000153391	ENSG00000141429
"ZNF397"	"ZSCAN30"	"ZNF24"	"INO80C"	"GALNT1"
ENSG00000141425	ENSG00000141424	ENSG00000134759	ENSG00000075643	ENSG00000134775
"RPRD1A"	"SLC39A6"	"ELP2"	"MOCOS"	"FHOD3"
ENSG00000134779	ENSG00000150477	ENSG00000078142	ENSG00000141469	ENSG00000152223
"TPGS2"	"KIAA1328"	"PIK3C3"	"SLC14A1"	"EPG5"
ENSG00000152229	ENSG00000152234	ENSG00000101638	ENSG00000167220	ENSG00000134049
"PSTPIP2"	"ATP5F1A"	"ST8SIA5"	"HDHD2"	"IER3IP1"
ENSG00000134030	ENSG00000101665	ENSG00000141627	ENSG00000177576	ENSG00000101670
"CTIF"	"SMAD7"	"DYM"	"C18orf32"	"LIPG"
ENSG00000167315	ENSG00000154832	ENSG00000154839	ENSG00000082212	ENSG00000176624
"ACAA2"	"CXXC1"	"SKA1"	"ME2"	"MEX3C"
ENSG00000187323	ENSG00000134046	ENSG00000166845	ENSG00000041353	ENSG00000166510
"DCC"	"MBD2"	"C18orf54"	"RAB27B"	"CCDC68"
ENSG00000196628	ENSG00000091164	ENSG00000091157	ENSG00000134440	ENSG00000081923
"TCF4"	"TXNL1"	"WDR7"	"NARS1"	"ATP8B1"
ENSG00000049759	ENSG00000198796	ENSG00000074657	ENSG00000074695	ENSG00000183287
"NEDD4L"	"ALPK2"	"ZNF532"	"LMAN1"	"CCBE1"
ENSG00000176641	ENSG00000134444	ENSG00000141664	ENSG00000081913	ENSG00000171791
"RNF152"	"RELCH"	"ZCCHC2"	"PHLPP1"	"BCL2"
ENSG00000119537	ENSG00000119541	ENSG00000166396	ENSG00000166401	ENSG00000171451
"KDSR"	"VPS4B"	"SERPINB7"	"SERPINB8"	"DSEL"
ENSG00000166479	ENSG00000150636	ENSG00000206052	ENSG00000150637	ENSG00000170677
"TMX3"	"CCDC102B"	"DOK6"	"CD226"	"SOCS6"
ENSG00000141668	ENSG00000166342	ENSG00000141665	ENSG00000166347	ENSG00000133313
"CBLN2"	"NETO1"	"FBX015"	"CYB5A"	"CNDP2"
ENSG00000180011	ENSG00000179981	ENSG00000101493	ENSG00000131196	ENSG00000060069
"PTGR3"	"TSHZ1"	"ZNF516"	"NFATC1"	"CTDP1"
ENSG00000122490	ENSG00000226742	ENSG00000101546	ENSG00000178184	ENSG00000196476
"SLC66A2"	"HSBP1L1"	"RBFA"	"PAR6G"	"C20orf96"
ENSG00000247315	ENSG00000177732	ENSG00000125841	ENSG00000101255	ENSG00000125826
"ZCCHC3"	"SOX12"	"NRSN2"	"TRIB3"	"RBCK1"
ENSG00000125898	ENSG00000125818	ENSG00000101298	ENSG00000088832	ENSG00000088833
"FAM110A"	"PSMF1"	"SNPH"	"FKBP1A"	"NSFL1C"
ENSG00000198053	ENSG00000125835	ENSG00000215251	ENSG00000088899	ENSG00000198171
"SIRPA"	"SNRPB"	"FASTKD5"	"LZTS3"	"DDR6K1"
ENSG00000125877	ENSG00000088836	ENSG00000088854	ENSG00000088812	ENSG00000101220
"ITPA"	"SLC4A11"	"DNAF9"	"ATRN"	"ADISSP"
ENSG00000101224	ENSG00000088888	ENSG00000125779	ENSG00000101236	ENSG00000088826
"CDC25B"	"MAVS"	"PANK2"	"RNF24"	"SMOX"
ENSG00000171873	ENSG00000171867	ENSG00000101265	ENSG00000089057	ENSG00000132646

"ADRA1D"	"PRNP"	"RASSF2"	"SLC23A2"	"PCNA"
ENSG00000101290	ENSG00000125772	ENSG00000125885	ENSG00000125845	ENSG00000132623
"CDS2"	"GPCPD1"	"MCM8"	"BMP2"	"ANKEF1"
ENSG00000132639	ENSG00000101384	ENSG00000132640	ENSG00000172296	ENSG00000089048
"SNAP25"	"JAG1"	"BTBD3"	"SPTLC3"	"ESF1"
ENSG00000125848	ENSG00000089177	ENSG00000125868	ENSG00000125844	ENSG00000089006
"FLRT3"	"KIF16B"	"DSTN"	"RRBP1"	"SNX5"
ENSG00000089091	ENSG00000132664	ENSG00000101310	ENSG00000232388	ENSG00000125821
"DZANK1"	"POLR3F"	"SEC23B"	"SMIM26"	"DTD1"
ENSG00000132669	ENSG00000173418	ENSG00000101343	ENSG00000088930	ENSG00000125812
"RIN2"	"NAA20"	"CRNKL1"	"XRN2"	"GZF1"
ENSG00000125814	ENSG00000101439	ENSG00000154930	ENSG00000197586	ENSG00000100994
"NAPB"	"CST3"	"ACSS1"	"ENTPD6"	"PYGB"
ENSG00000100997	ENSG00000101003	ENSG00000101004	ENSG00000149531	ENSG00000101294
"ABHD12"	"GINS1"	"NINL"	NA	"HM13"
ENSG00000125968	ENSG00000171552	ENSG00000088325	ENSG00000101306	ENSG00000088356
"ID1"	"BCL2L1"	"TPX2"	"MYLK2"	"PDRG1"
ENSG00000101337	ENSG00000101346	ENSG00000101350	ENSG00000171456	ENSG00000149600
"TM9SF4"	"POFUT1"	"KIF3B"	"ASXL1"	"COMMD7"
ENSG00000088305	ENSG00000101367	ENSG00000101391	ENSG00000078699	ENSG00000125967
"DNMT3B"	"MAPRE1"	"CDK5RAP1"	"CBFA2T2"	"NECAB3"
ENSG00000101412	ENSG00000101417	ENSG00000101421	ENSG00000125970	ENSG00000125977
"E2F1"	"PXMP4"	"CHMP4B"	"RALY"	"EIF2S2"
ENSG00000101444	ENSG00000078747	ENSG00000125971	ENSG00000101460	ENSG00000198646
"AHCY"	"ITCH"	"DYNLRB1"	"MAP1LC3A"	"NCOA6"
ENSG00000078804	ENSG00000131069	ENSG00000100983	ENSG00000100991	ENSG00000088298
"TP53INP2"	"ACSS2"	"GSS"	"TRPC4AP"	"EDEM2"
ENSG00000101000	ENSG00000125966	ENSG00000242372	ENSG00000204183	ENSG00000125965
"PROCR"	"MMP24"	"EIF6"	NA	"GDF5"
ENSG00000125991	ENSG00000244005	ENSG00000125995	ENSG00000131051	ENSG00000025293
"ERGIC3"	"NFS1"	"ROMO1"	"RBM39"	"PHF20"
ENSG00000171222	ENSG00000088367	ENSG00000101335	ENSG00000118707	ENSG00000101084
"SCAND1"	"EPB41L1"	"MYL9"	"TGIF2"	"RAB5IF"
ENSG00000101079	ENSG00000149636	ENSG00000101347	ENSG00000080839	ENSG00000101363
"NDRG3"	"DSN1"	"SAMHD1"	"RBL1"	"MANBAL"
ENSG00000197122	ENSG00000166619	ENSG00000053438	ENSG00000132792	ENSG00000132821
"SRC"	"BLCAP"	"NNAT"	"CTNNBL1"	"VSTM2L"
ENSG00000101407	ENSG00000198959	ENSG00000149633	ENSG00000170471	ENSG00000101442
"TTI1"	"TGM2"	"KIAA1755"	"RALGAPB"	"ACTR5"
ENSG00000101447	ENSG00000204103	ENSG00000198900	ENSG00000124181	ENSG00000174306
"FAM83D"	"MAFB"	"TOP1"	"PLCG1"	"ZHX3"
ENSG00000124177	ENSG00000124193	ENSG00000101057	ENSG00000124191	ENSG00000149596
"CHD6"	"SRSF6"	"MYBL2"	"TOX2"	"JPH2"

ENSG00000132823	ENSG00000132824	ENSG00000168734	ENSG00000101109	ENSG00000124134
"OSER1"	"SERINC3"	"PKIG"	"STK4"	"KCSN1"
ENSG00000124145	ENSG00000204070	ENSG00000124155	ENSG00000101457	ENSG00000175063
"SDC4"	"SYS1"	"PIGT"	"DNTTIP1"	"UBE2C"
ENSG00000101473	ENSG00000168612	ENSG00000064601	ENSG00000100979	ENSG00000124160
"ACOT8"	"ZSWIM1"	"CTSA"	"PLTP"	"NCOA5"
ENSG00000080189	ENSG00000172315	ENSG00000197496	ENSG00000064655	ENSG00000124151
"SLC35C2"	"TP53RK"	"SLC2A10"	"EYA2"	"NCOA3"
ENSG00000196562	ENSG00000124198	ENSG00000124207	ENSG00000124214	ENSG00000124201
"SULF2"	"ARFGEF2"	"CSE1L"	"STAU1"	"ZNFX1"
ENSG00000124212	ENSG00000158470	ENSG00000197818	ENSG00000158480	ENSG00000124226
"PTGIS"	"B4GALT5"	"SLC9A8"	"SPATA2"	"RNF114"
ENSG00000124216	ENSG00000240849	ENSG00000172216	ENSG00000196396	ENSG00000042062
"SNAI1"	"PEDS1"	"CEBPB"	"PTPN1"	"RIPOR3"
ENSG00000124171	ENSG00000124243	ENSG00000101126	ENSG00000101096	ENSG00000054793
"PARD6B"	"BCAS4"	"ADNP"	"NFATC2"	"ATP9A"
ENSG00000020256	ENSG00000182463	ENSG00000171940	ENSG00000101134	ENSG00000124098
"ZFP64"	"TSHZ2"	"ZNF217"	"DOK5"	"FAM210B"
ENSG00000087586	ENSG00000101138	ENSG00000087589	ENSG00000022277	ENSG00000087510
"AURKA"	"CSTF1"	"CASS4"	"RTF2"	"TFAP2C"
ENSG00000124225	ENSG00000124209	ENSG00000124164	ENSG00000198768	ENSG00000124222
"PMEPA1"	"RAB22A"	"VAPB"	"APCDD1L"	"STX16"
ENSG00000087460	ENSG00000101158	ENSG00000101166	ENSG00000196227	ENSG00000179242
"GNAS"	"NELFCD"	"PRELID3B"	"FAM217B"	"CDH4"
ENSG00000149657	ENSG00000184402	ENSG00000130702	ENSG00000171858	ENSG00000149679
"LSM14B"	"SS18L1"	"LAMA5"	"RPS21"	"CABLES2"
ENSG00000101187	ENSG00000060491	ENSG00000101191	ENSG00000101193	ENSG00000101194
"SLC04A1"	"OGFR"	"DID01"	"GID8"	"SLC17A9"
ENSG00000101199	ENSG00000125534	ENSG00000130589	ENSG00000101216	ENSG00000197457
"ARFGAP1"	"PPDPF"	"HELZ2"	"GMEB2"	"STMN3"
ENSG00000125520	ENSG00000130584	ENSG00000101152	ENSG00000198276	ENSG00000130590
"SLC2A4RG"	"ZBTB46"	"DNAJC5"	"UCKL1"	"SAMD10"
ENSG00000101161	ENSG00000171703	ENSG00000171700	ENSG00000203880	ENSG00000141934
"PRPF6"	"TCEA2"	"RGS19"	"PCMTD2"	"PLPP2"
ENSG00000129946	ENSG00000141933	ENSG00000099804	ENSG00000172270	ENSG00000099822
"SHC2"	"TPGS1"	"CDC34"	"BSG"	"HCN2"
ENSG00000099821	ENSG00000070423	ENSG00000070404	ENSG00000099864	ENSG00000011304
"POLRMT"	"RNF126"	"FSTL3"	"PALM"	"PTBP1"
ENSG00000129951	ENSG00000175221	ENSG00000116017	ENSG00000065268	ENSG00000182087
"PLPPR3"	"MED16"	"ARID3A"	"WDR18"	"TMEM259"
ENSG00000064666	ENSG00000064687	ENSG00000180448	ENSG00000099817	ENSG00000167468
"CNN2"	"ABCA7"	"ARHGAP45"	"POLR2E"	"GPX4"
ENSG00000064932	ENSG00000118046	ENSG00000167470	ENSG00000228300	ENSG00000160953

"SBN02"	"STK11"	"MIDN"	"FAM174C"	"PWWP3A"
ENSG00000130005	ENSG00000115268	ENSG00000119559	ENSG00000185761	ENSG00000181588
"GAMT"	"RPS15"	"C19orf25"	"ADAMTSL5"	"MEX3D"
ENSG00000071564	ENSG00000129968	ENSG00000227500	ENSG00000213638	ENSG00000133275
"TCF3"	"ABHD17A"	"SCAMP4"	"ADAT3"	"CSNK1G2"
ENSG00000133243	ENSG00000099875	ENSG00000172081	ENSG00000065000	ENSG00000104885
"BTBD2"	"MKNK2"	"MOB3A"	"AP3D1"	"DOT1L"
ENSG00000104904	ENSG00000005206	ENSG00000176619	ENSG00000099860	ENSG00000176490
"OAZ1"	"SPPL2B"	"LMNB2"	"GADD45B"	"DIRAS1"
ENSG00000141873	ENSG00000172009	ENSG00000186300	ENSG00000104964	ENSG00000088256
"SLC39A3"	"THOP1"	"ZNF555"	"TLE5"	"GNA11"
ENSG00000141905	ENSG00000105325	ENSG00000161091	ENSG00000183397	ENSG00000064961
"NFIC"	"FZR1"	"MFS12"	"TEKTIP1"	"HMG20B"
ENSG00000179855	ENSG00000006638	ENSG00000186111	ENSG00000167654	ENSG00000167657
"GIPC3"	"TBXA2R"	"PIP5K1C"	"ATCAY"	"DAPK3"
ENSG00000105229	ENSG00000178951	ENSG00000126934	ENSG00000105255	ENSG00000167670
"PIAS4"	"ZBTB7A"	"MAP2K2"	"FSD1"	"CHAF1A"
ENSG00000167671	ENSG00000167674	ENSG00000167680	ENSG00000185361	ENSG00000142002
"UBXN6"	"HDGFL2"	"SEMA6B"	"TNFAIP8L1"	"DPP9"
ENSG00000141965	ENSG00000127666	ENSG00000105355	ENSG00000276043	ENSG00000105426
"FEM1A"	"TICAM1"	"PLIN3"	"UHRF1"	"PTPRS"
ENSG00000130255	ENSG00000174917	ENSG00000167733	ENSG00000196365	ENSG00000031823
"RPL36"	"MICOS13"	"HSD11B1L"	"LONP1"	"RANBP3"
ENSG00000087903	ENSG00000125656	ENSG00000088247	ENSG00000125648	ENSG00000125657
"RFX2"	"CLPP"	"KHSRP"	"SLC25A23"	"TNFSF9"
ENSG00000125734	ENSG00000130544	ENSG00000171105	ENSG00000198816	ENSG00000090674
"GPR108"	"ZNF557"	"INSR"	"ZNF358"	"MCOLN1"
ENSG00000032444	ENSG00000181029	ENSG00000142459	ENSG00000178531	ENSG00000104980
"PNPLA6"	"TRAPPC5"	"EVI5L"	"CTXN1"	"TIMM44"
ENSG00000066044	ENSG00000186994	ENSG00000167772	ENSG00000185236	ENSG00000099783
"ELAVL1"	"KANK3"	"ANGPTL4"	"RAB11B"	"HNRNP"
ENSG00000142347	ENSG00000167785	ENSG00000130803	ENSG00000196110	ENSG00000188321
"MYO1F"	"ZNF558"	"ZNF317"	"ZNF699"	"ZNF559"
ENSG00000130818	ENSG00000197961	ENSG00000171469	ENSG00000171466	ENSG00000198258
"ZNF426"	"ZNF121"	"ZNF561"	"ZNF562"	"UBL5"
ENSG00000127445	ENSG00000105088	ENSG00000080573	ENSG00000130813	ENSG00000244165
"PIN1"	"OLFM2"	"COL5A3"	"SHFL"	"P2RY11"
ENSG00000130816	ENSG00000267534	ENSG00000105364	ENSG00000090339	ENSG00000105376
"DNMT1"	"S1PR2"	"MRPL4"	"ICAM1"	"ICAM5"
ENSG00000105401	ENSG00000065989	ENSG00000079999	ENSG00000180739	ENSG00000130734
"CDC37"	"PDE4A"	"KEAP1"	"S1PR5"	"ATG4D"
ENSG00000129347	ENSG00000129353	ENSG00000129351	ENSG00000079805	ENSG00000099203
"KRI1"	"SLC44A2"	"ILF3"	"DNM2"	"TMED1"

ENSG00000130733	ENSG00000130164	ENSG00000161888	ENSG00000130158	ENSG00000105514
"YIPF2"	"LDLR"	"SPC24"	"DOCK6"	"RAB3D"
ENSG00000105518	ENSG00000130175	ENSG00000130159	ENSG00000130176	ENSG00000198551
"TMEM205"	"PRKCSH"	"ECSIT"	"CNN1"	"ZNF627"
ENSG00000102575	ENSG00000197044	ENSG00000171295	ENSG00000198429	ENSG00000197647
"ACP5"	"ZNF441"	"ZNF440"	"ZNF69"	"ZNF433"
ENSG00000223547	ENSG00000196646	ENSG00000197857	ENSG00000173875	ENSG00000104774
"ZNF844"	"ZNF136"	"ZNF44"	"ZNF791"	"MAN2B1"
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"CALR"	"RAD23A"	"GADD45GIP1"	"NFIX"	"LYL1"
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"PRKACA"	"ASF1B"	"ADGRL1"	"ADGRE5"	"DDX39A"
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"ZNF43"	"ZNF208"	"ZNF91"	"ZNF254"	"POP4"
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"LRP3"	"CEBPG"	"PEPD"	"KCTD15"	"GARRE1"
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"GPI"	"UBA2"	"ZNF302"	"ZNF792"	"GRAMD1A"
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"FXD5"	"USF2"	"SBSN"	"TMEM147"	"HAUS5"
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"RBM42"	"COX6B1"	"PSENEN"	"HSPB6"	"ARHGAP33"
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"ZNF793"	"ZFP30"	"DPF1"	"YIF1B"	"PSMD8"
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"ACTN4"	"ECH1"	"HNRNPL"	"SIRT2"	"NFKBIB"
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"FBXO17"	"FBXO27"	"LRFN1"	"GMFG"	"SAMD4B"
ENSG00000063322	ENSG00000128016	ENSG00000090924	ENSG00000105193	ENSG00000196235
"MED29"	"ZFP36"	"PLEKHG2"	"RPS16"	"SUPT5H"
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"TIMM50"	"DYRK1B"	"FBL"	"FCGBP"	"ZNF780B"
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"MAP3K10"	"AKT2"	"C19orf47"	"PLD3"	"SERTAD1"
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"SERTAD3"	"BLVRB"	"SPTBN4"	"SHKBP1"	"LTBP4"
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"ITPKC"	"ACTMAP"	"SNRPA"	"RAB4B"	"EGLN2"
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"CYP2S1"	"AXL"	"HNRNPUL1"	"TGFB1"	"CCDC97"

ENSG00000123810	ENSG00000076928	ENSG00000028277	ENSG00000160570	ENSG00000105723
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"PAFAH1B3"	"MEGF8"	"PSG5"	"PSG4"	"LYPD3"
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"PHLDB3"	"ETHE1"	"ZNF575"	"PINLYP"	"IRGQ"
ENSG00000124444	ENSG00000131116	ENSG00000105767	ENSG00000104783	ENSG00000167637
"ZNF576"	"ZNF428"	"CADM4"	"KCNN4"	"ZNF283"
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"ZNF404"	"ZNF45"	"ZNF221"	"ZNF230"	"ZNF224"
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"ZNF225"	"ZNF234"	"ZNF226"	"ZNF227"	"ZNF235"
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"ZNF229"	"PVR"	"BCAM"	"NECTIN2"	"TOMM40"
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"CLPTM1"	"CLASRP"	"GEMIN7"	"ERCC2"	"PPP1R13L"
ENSG00000012061	ENSG00000125740	ENSG00000125753	ENSG00000125741	ENSG00000125746
"ERCC1"	"FOSB"	"VASP"	"OPA3"	"EML2"
ENSG00000125743	ENSG00000177051	ENSG00000177045	ENSG00000176182	ENSG00000104983
"SNRPD2"	"FBX046"	"SIX5"	"MYPOP"	"CCDC61"
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"PPP5C"	"CCDC8"	"PNMA8A"	"CALM3"	"DACT3"
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"PRKD2"	"FKRP"	"SLC1A5"	"AP2S1"	"ARHGAP35"
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"SAE1"	"BBC3"	"INAFM1"	"MEIS3"	"NAPA"
ENSG00000024422	ENSG00000105373	ENSG00000178980	ENSG00000105486	ENSG00000105483
"EHD2"	"NOP53"	"SELENOW"	"LIG1"	"CARD8"
ENSG00000142227	ENSG00000105438	ENSG00000105447	ENSG00000105443	ENSG00000063180
"EMP3"	"KDELR1"	"GRWD1"	"CYTH2"	"CA11"
ENSG00000176909	ENSG00000105552	ENSG00000087076	ENSG00000087074	ENSG00000104805
"MAMSTR"	"BCAT2"	"HSD17B14"	"PPP1R15A"	"NUCB1"
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"BAX"	"FTL"	"GYS1"	"RUVBL2"	"TRPM4"
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"SLC6A16"	"CD37"	"TEAD2"	"RPL13A"	"FCGRT"
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"RCN3"	"PRR12"	"RRAS"	"SCAF1"	"IRF3"
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"BCL2L12"	"PRMT1"	"AP2A1"	"MED25"	"PTOV1"
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"PNKP"	"AKT1S1"	"TBC1D17"	"NUP62"	"VRK3"
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"ZNF175"	"ZNF577"	"ZNF614"	"ZNF432"	"ZNF841"
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"ZNF616"	"ZNF836"	"PPP2R1A"	"ZNF766"	"ZNF480"
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"ZNF610"	"ZNF880"	"ZNF528"	"ZNF578"	"ZNF808"
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"ZNF701"	"ZNF83"	"ZNF611"	"ZNF600"	"ZNF28"
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"ZNF677"	"ZNF765"	"MYADM"	"CACNG7"	"NDUFA3"
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"TFPT"	"PRPF31"	"MBOAT7"	"TSEN34"	"RPS9"
ENSG00000167615	ENSG00000275183	ENSG00000160439	ENSG00000131037	ENSG00000125503
"LENG8"	"LENG9"	"RDH13"	"EPS8L1"	"PPP1R12C"
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"PTPRH"	"BRSK1"	"KMT5C"	"IL11"	"RPL28"
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"UBE2S"	"SHISA7"	"NAT14"	"SSC5D"	"ZNF524"
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"EPN1"	"ZNF787"	"ZNF582"	"ZNF583"	"ZNF667"
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"ZNF304"	"ZNF749"	"VN1R1"	"ZNF549"	"ZNF550"
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"ZIK1"	"ZNF134"	"ZNF211"	"ZNF154"	"ZNF776"
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"RPS5"	"ZNF584"	"ZNF132"	"ZNF324"	"ZBTB45"
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"CHMP2A"	"UBE2M"	"MZF1"	"TMEM121B"	"ATP6V1E1"
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"ARVCF"	"RANBP1"	"ZNF74"	"KLHL22"	"MED15"
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"PI4KA"	"SNAP29"	"CRKL"	"SDF2L1"	"PPIL2"
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"YPEL1"	"MAPK1"	"PPM1F"	"GNAZ"	"RAB36"
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"BCR"	"CHCHD10"	"MMP11"	"CABIN1"	"SUSD2"
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"GGT5"	"SPECC1L"	"SNRPD3"	"HPS4"	"TFIP11"
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"TPST2"	"PITPNB"	"TTC28"	"CHEK2"	"HSCB"
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"CCDC117"	"XBP1"	"ZNRFB3"	"EMID1"	"RHBDD3"
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"EWSR1"	"GAS2L1"	"AP1B1"	"NEFH"	"NIPSNAP1"
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"NF2"	"MTMR3"	"LIF"	"SF3A1"	"CCDC157"
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"RNF215"	"SEC14L2"	"TCN2"	"DUSP18"	"OSBP2"
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"MORC2"	"SMTN"	"INPP5J"	"RNF185"	"PIK3IP1"
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"DRG1"	"SFI1"	"PISD"	"PRR14L"	"YWHAH"
ENSG00000100220	ENSG00000100225	ENSG00000100234	ENSG00000133424	ENSG00000100281
"RTCB"	"FBXO7"	"TIMP3"	"LARGE1"	"HMGXB4"
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"TOM1"	"MCM5"	"APOL6"	"RBF0X2"	"APOL2"
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"MYH9"	"FOXRED2"	"EIF3D"	"IFT27"	"C1QTNF6"
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"RAC2"	"CARD10"	"CDC42EP1"	"SH3BP1"	"LGALS1"
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"TRIOBP"	"MICALL1"	"MAFF"	"TMEM184B"	"CSNK1E"
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"KCNJ4"	"KDEL3"	"DDX17"	"FAM227A"	"JOSD1"
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"GTPBP1"	"SUN2"	"DNAL4"	"APOBEC3B"	"APOBEC3C"
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"TOB2"	"AC02"	"CSDC2"	"XRCC6"	"SNU13"
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"CCDC134"	"SREBF2"	"CENPM"	"NAGA"	"PHETA2"
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"NDUFA6"	"RRP7A"	"POLDIP3"	"A4GALT"	"ARFGAP3"
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"PACSIN2"	"TSP0"	"PARVB"	"NUP50"	"KIAA0930"
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"FAM118A"	"FBLN1"	"ATXN10"	"WNT7B"	"GTSE1"
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"GRAMD4"	"CERK"	"TBC1D22A"	"BRD1"	"ZBED4"
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"PLXNB2"	"DENND6B"	"SBF1"	"ADM2"	"LMF2"
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"CXADR"	"BTG3"	"C21orf91"	"NCAM2"	"MRPL39"
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"JAM2"	"ATP5PF"	"GABPA"	"APP"	"ADAMTS1"
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"ADAMTS5"	"LTN1"	"RWDD2B"	"MAP3K7CL"	"BACH1"
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"SCAF4"	"HUNK"	"MIS18A"	"PAXBP1"	"IFNGR2"
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"TMEM50B"	"GART"	"SON"	"DONSON"	"ITSN1"
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"ATP5P0"	"MRPS6"	"SLC5A3"	"RCAN1"	"RUNX1"
ENSG00000159228	ENSG00000159231	ENSG00000142197	ENSG00000159256	ENSG00000159259
"CBR1"	"CBR3"	"DOP1B"	"MORC3"	"CHAF1B"
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"SIM2"	"HLCS"	"TTC3"	"VPS26C"	"DYRK1A"
ENSG00000157542	ENSG00000157551	ENSG00000157557	ENSG00000183527	ENSG00000185658
"KCNJ6"	"KCNJ15"	"ETS2"	"PSMG1"	"BRWD1"
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"GET1"	"DSCAM"	"BACE2"	"C2CD2"	"ZBTB21"
ENSG00000160179	ENSG00000160190	ENSG00000160200	ENSG00000142178	ENSG00000160208
"ABCG1"	"SLC37A1"	"CBS"	"SIK1"	"RRP1B"

ENSG00000160209	ENSG00000160216	ENSG00000141959	ENSG00000160233	ENSG00000184787
"PDXK"	"AGPAT3"	"PFKL"	"LRR3"	"UBE2G2"
ENSG00000184900	ENSG00000160256	ENSG00000197381	ENSG00000186866	ENSG00000182871
"SUMO3"	"SLX9"	"ADAR1"	"POFUT2"	"COL18A1"
ENSG00000173638	ENSG00000142156	ENSG00000142173	ENSG00000160284	ENSG00000160285
"SLC19A1"	"COL6A1"	"COL6A2"	"SPATC1L"	"LSS"
ENSG00000160294	ENSG00000160298	ENSG00000160299	ENSG00000198888	ENSG00000198763
"MCM3AP"	"C21orf58"	"PCNT"	"ND1"	"ND2"
ENSG00000198804	ENSG00000228253	ENSG00000198899	ENSG00000198938	ENSG00000198840
"COX1"	"ATP8"	"ATP6"	"COX3"	"ND3"
ENSG00000212907	ENSG00000198886	ENSG00000198786	ENSG00000198695	ENSG00000198727
"ND4L"	"ND4"	"ND5"	"ND6"	"CYTB"
ENSG00000273748	ENSG00000271254			
NA	"LOC124905564"			

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write.table(sig_genes, file="significant_genes.txt", row.names=FALSE, col.names=FALSE, quote=
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