

Ribosomal Profiling Report (Version 1.0.0)

Dengue Test Report

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1 Synopsis

Sample study design text.

2 Methods

2.1 RNA-Seq experiment

Sample methods text

2.2 Ribosomal Profiling data processing and data qc

Sequences of known human rRNAs, rRNA pseudogenes, tRNA pseudogenes, mitochondrial rRNAs (mt-rRNAs), mitochondrial tRNAs (mt-tRNAs), and mt-rRNA pseudogenes were obtained from the ENSEMBL database (Version 95) using the *biomaRt* software (Version 2.40.0). Known human tRNA sequences were obtained from the Ensembl database (Version 95) using the Ensembl Perl API (Version 90). In addition, known RNA sequences from GenBank (NR003285.3, NR003286.4, NR003287.4, NR023363.1) were added to this sequence collection. These sequences were then used to build a *Bowtie2* index of contaminant sequences. Next, 3' and 5' adapter sequences were trimmed from reads using *Cutadapt* (Version 2.3). Reads with Phred quality score of less than 20 for the majority of bases were removed using FASTQ quality filter from the *FASTX Toolkit* software package (Version 0.0.14). Reads that fell outside the typical length range of ribosomal footprints (25nt to 35nt) were removed. Reads were then aligned to the index of contaminant sequences using *Bowtie2* (Version 2.3.5) with its local alignment option. Reads that mapped to contaminant sequences were removed, and those that did not were output to a FASTQ file for alignment to the reference genome.

The human reference genome assembly, gene models, and associated gene annotation information in the form of a Gene Transfer Format (GTF) were obtained from the ENSEMBL database (Version 95). The genomic reference was built by merging all human chromosomes. Sequence reads were aligned to the reference transcriptome/genome using the *Hisat2* splice-aware read aligner (Version 2.1.0). Ensembl gene models were used to guide the alignment process. For each sample, the quality of reference alignments was evaluated using the *RSeQC* software (Version 3.0.0). Quality measures were summarized in tabular form, univariate boxplots, and multivariate starplots.

2.3 RNA-Seq data preprocessing and data qc

With the exception of read length filtering, the RNA-Seq data was processed as described in Section 2.2.

Gene expression quantification was carried out on the gene level using the `featureCounts` function as implemented in the *Subread* software (Version 1.6.4). Reads that overlapped with multiple genes or mapped to multiple genomic locations on the reference genome were excluded. Systematic sample differences in sequencing coverage were corrected for by calculating scaling factors for each sample using the trimmed mean of M-values (TMM) method as implemented in the *edgeR* R package (Version 3.26.4). Post-normalization, Mt-rRNA, Mt-tRNA, Mt-tRNA-pseudogene, tRNA, rRNA, rRNA-pseudogene, tRNA-pseudogene genes based on ENSEMBL GTF annotations were excluded from the final read count results (**Table 42**). TMM normalization was executed across all samples to evaluate global gene expression patterns, systematic effects, and outliers. Following outlier removal, TMM-normalization was rerun separately for each specimen type. The resulting normalized data was used for all downstream specimen type-specific analyses.

For data visualizations and multivariate analyses, TMM-normalized moderated \log_2 counts per million (LCPM) were computed using the *edgeR* R package. To avoid taking the \log_2 of zero values, a TMM-scaled count of 0.5 was added to each gene. Subject-specific \log_2 fold changes from pre-treatment were calculated for each subject and post-treatment time point by subtracting the pre-treatment LCPM value from the respective post-treatment LCPM value.

Genes with maximum expression levels across all samples per specimen type that did not exceed the specified cut off of 3 LCPM were considered to be lowly expressed and were excluded from downstream analysis. To guide the cut-off selection, reverse cumulative distribution functions summarizing the percentage of genes whose maximum LCPM exceeded a certain LCPM cut off were plotted for each specimen type (**Figure 7**, **Figure 104**). Filtered TMM-normalized LCPM were standardized (z-score: mean=0, variance=1) and LCPM distributions across samples were inspected for outliers and systematic effects using principal component analysis, multidimensional scaling, and hierarchical clustering analysis. Identified outliers were excluded from downstream analysis.

2.3.1 Identification of differentially expressed genes

Negative binomial generalized linear models as implemented in the *edgeR* software were applied to identify differentially expressed (DE) and translated (DT) genes after exclusion of outlying samples and lowly expressed genes. TMM-adjusted total read counts per sample were included in the models as an offset to account for systematic sample differences. For each specimen type, DE gene analysis was carried per post-treatment time point (6h PI, 12h PI, 24h PI, 40h PI) in relation to pre-treatment. Each model included a factor for time as an indicator for pre- and post-treatment samples. The statistical significance of the post- vs. pre-treatment effect was evaluated using a likelihood ratio test. To control for testing multiple genes, the false-discovery rate (FDR) based on the Benjamini-Hochberg procedure as implemented in the *p.adjust* R function was applied for each model. Genes with a pre-treatment fold change of ≥ 4 and FDR-adjusted p-value < 0.05 were considered to be DE genes. DE gene results were tabulated and treatment effects in terms of overall \log_2 fold changes and FDR-adjusted p-values were summarized for each specimen type and post-treatment time point using MA plots and Volcano plots. Overlap in DE genes between post-treatment time points and/or specimen types was assessed using Venn diagrams and/or UpSet plots.

2.3.2 Determination of co-expressed gene clusters

Unsupervised multiscale bootstrap resampling as implemented in the *pvclust* R package (Version 2.0-0) was carried out for each specimen type and post-treatment time point to identify robust clusters of co-expressed genes with correlated \log_2 fold change responses. Genes identified as DE for any post-treatment time point were included as part of this analysis. Bootstrap resampling was based on uncentered pearson correlation distances between \log_2 fold change responses in combination with the complete linkage clustering algorithm using varying dataset sizes. For each dataset size bin, 1000 bootstrap samples were obtained, and *pvclust* bootstrap probabilities and unbiased p-values were calculated. An unbiased p-value cut-off of ≥ 0.95 was applied to determine significant clusters. The maximum distance to form a significant cluster was set to 0.5. Clusters that were formed at a larger distance were excluded. Gene cluster dendograms were visualized and cluster information was tabulated. For gene clusters with correlated responses across all post-treatment time points (6h PI, 12h PI, 24h PI, 40h PI), pre-treatment fold change time trends across all time points were provided.

2.3.3 Pathway enrichment analysis

Pathway enrichment analysis was carried out separately for specimen type and post-treatment time point using gene sets listed in **Table 53**. The enrichment analysis was conducted using the *GOseq* software (Version 1.36.0) which adjusts

for RNA-Seq gene length bias. Gene length information was obtained from the Ensembl database using the *biomaRt* R package (Version 2.40.0, Ensembl Version 95). Gene length was defined as the length of the longest transcript per gene including untranslated regions and coding sequence. *GOseq* probability weighting functions were estimated for each specimen type and post-treatment time point based on the respective DE gene results. Null distributions were estimated using *GOseq*'s random sampling option (10^4 randomizations were applied). To account for testing multiple gene sets, gene sets with a FDR-adjusted p-value < 0.1 were considered to be significantly enriched. In addition, the Jaccard index (to assess agreement between DE genes and gene sets) and enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$) for each gene set was calculated. Pathway enrichment trends over time were visualized using heatmap and radar plots. Overlap in enriched pathways between post-treatment time points and/or specimen types was assessed using Venn diagrams and/or UpSet plots.

2.4 Software

Data was analyzed using the *R statistical programming language* (version 3.6.0 (2019-04-26)) and *R Bioconductor* packages. This report was generated using the *knitr* R package (Version 1.23) and *LaTeX* typesetting software (Version TeX Live 2012/Debian). The operating used was *Ubuntu* (Version 18.04.2 LTS). Additional software along with version information is listed in the respective method sections and in **Table 82**.

3 Results

3.1 Figures

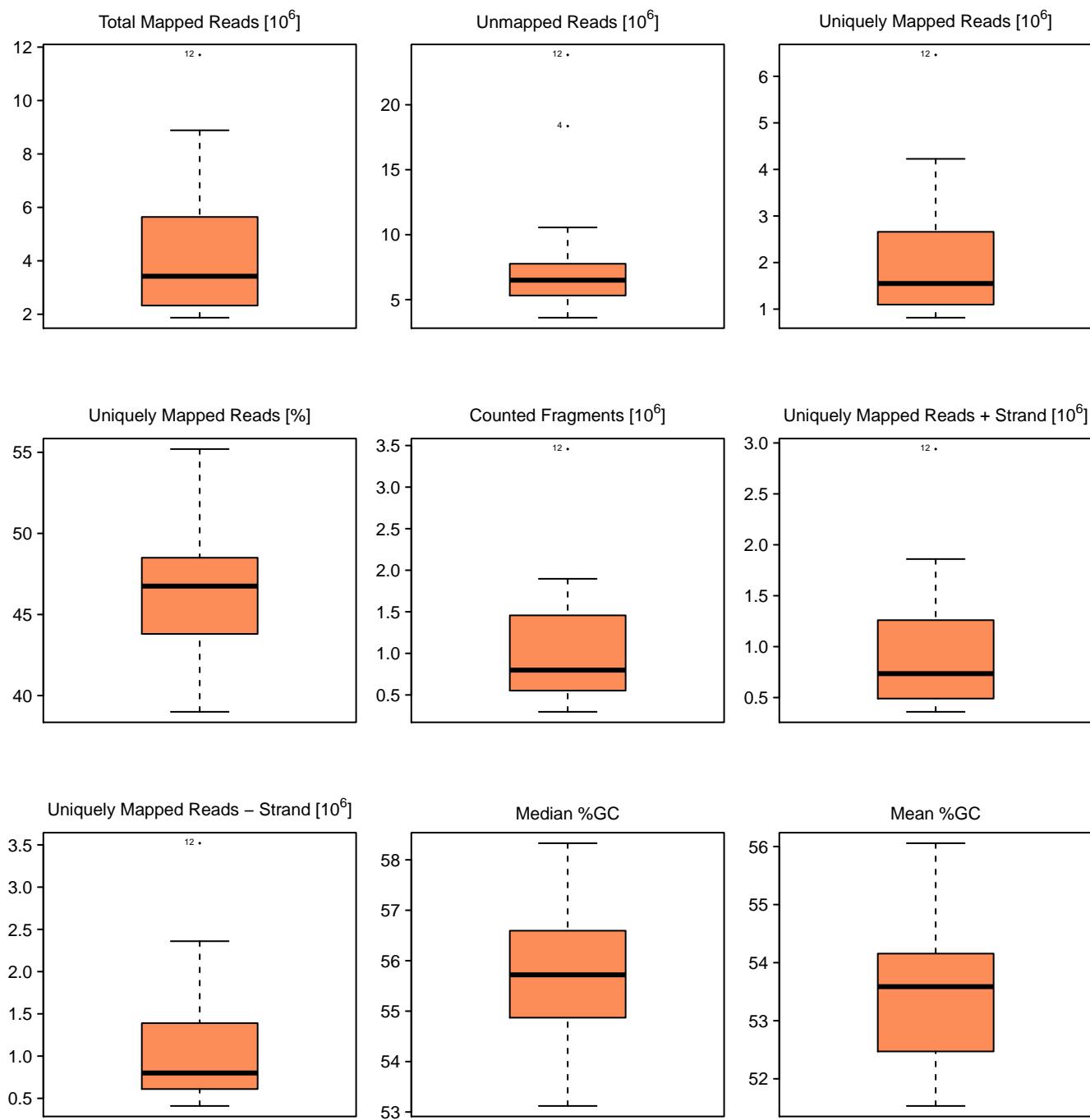


Figure 1: Boxplots of human reference genome alignment genome statistics (RNA-Seq, All specimen types).

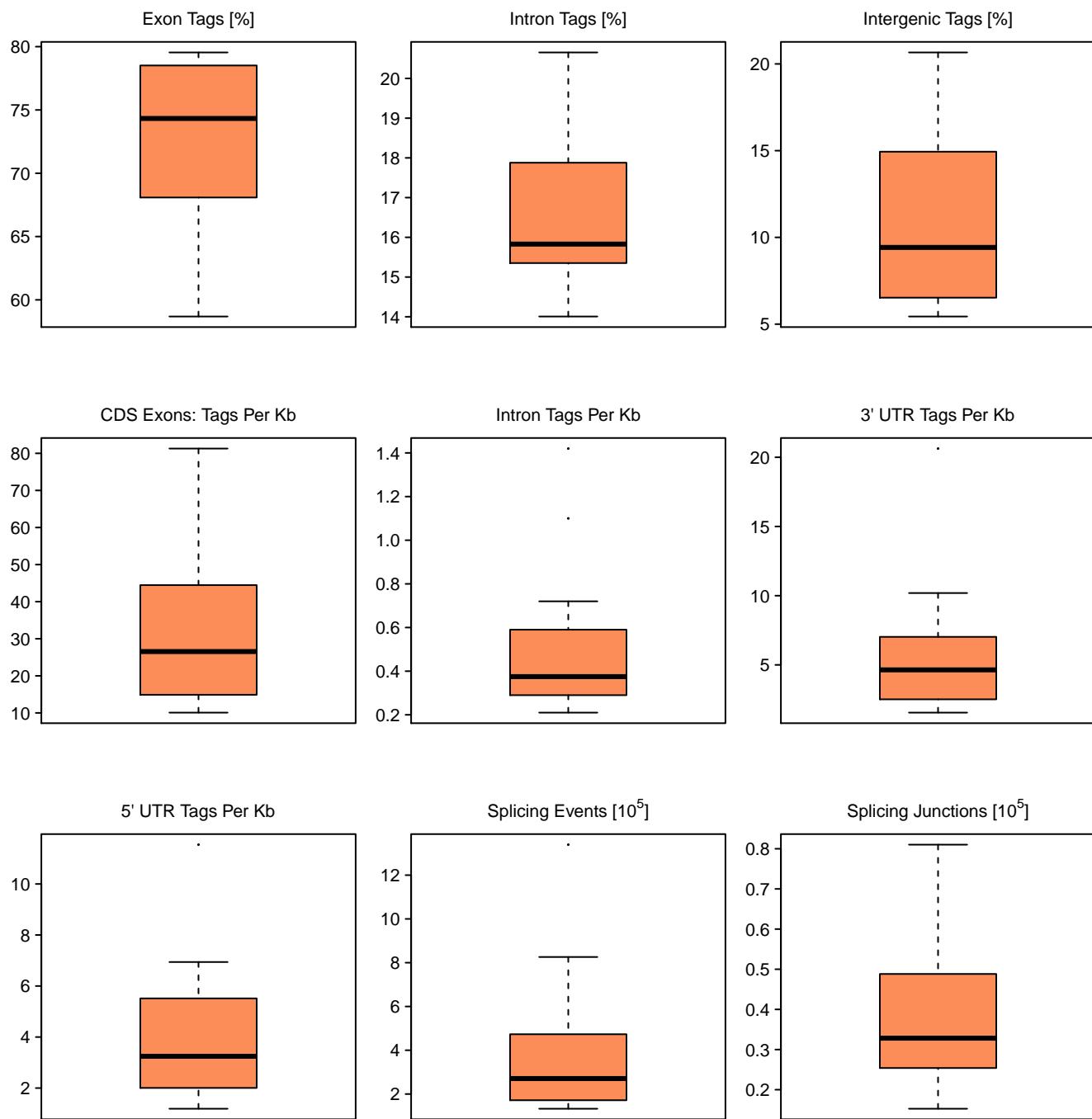


Figure 2: Boxplots of human reference genome alignment gene model statistics (RNA-Seq, All specimen types).

Huh7

Reference Alignment Statistics

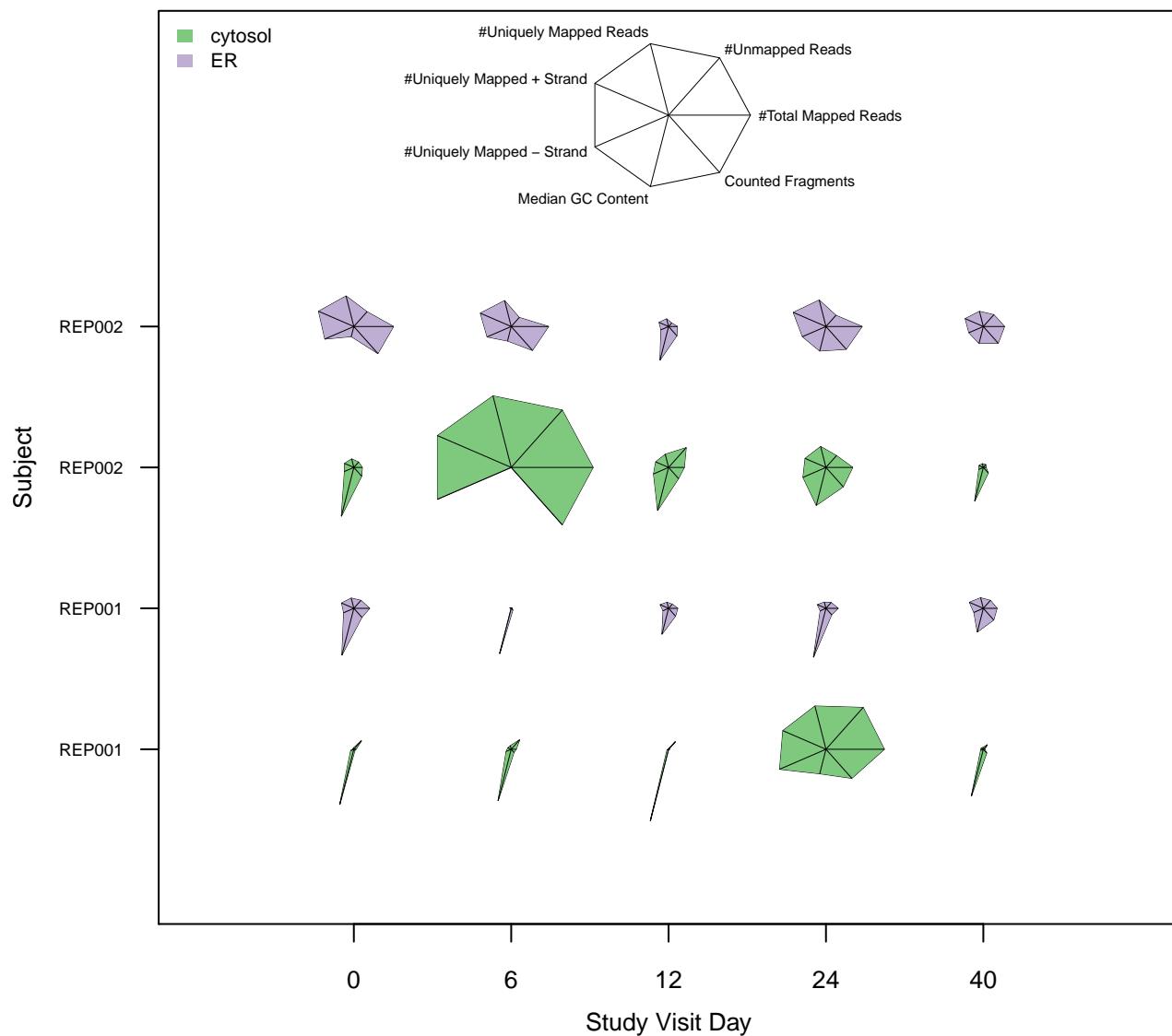


Figure 3: Starplots of human reference genome alignment statistics (RNA-Seq, Huh7).

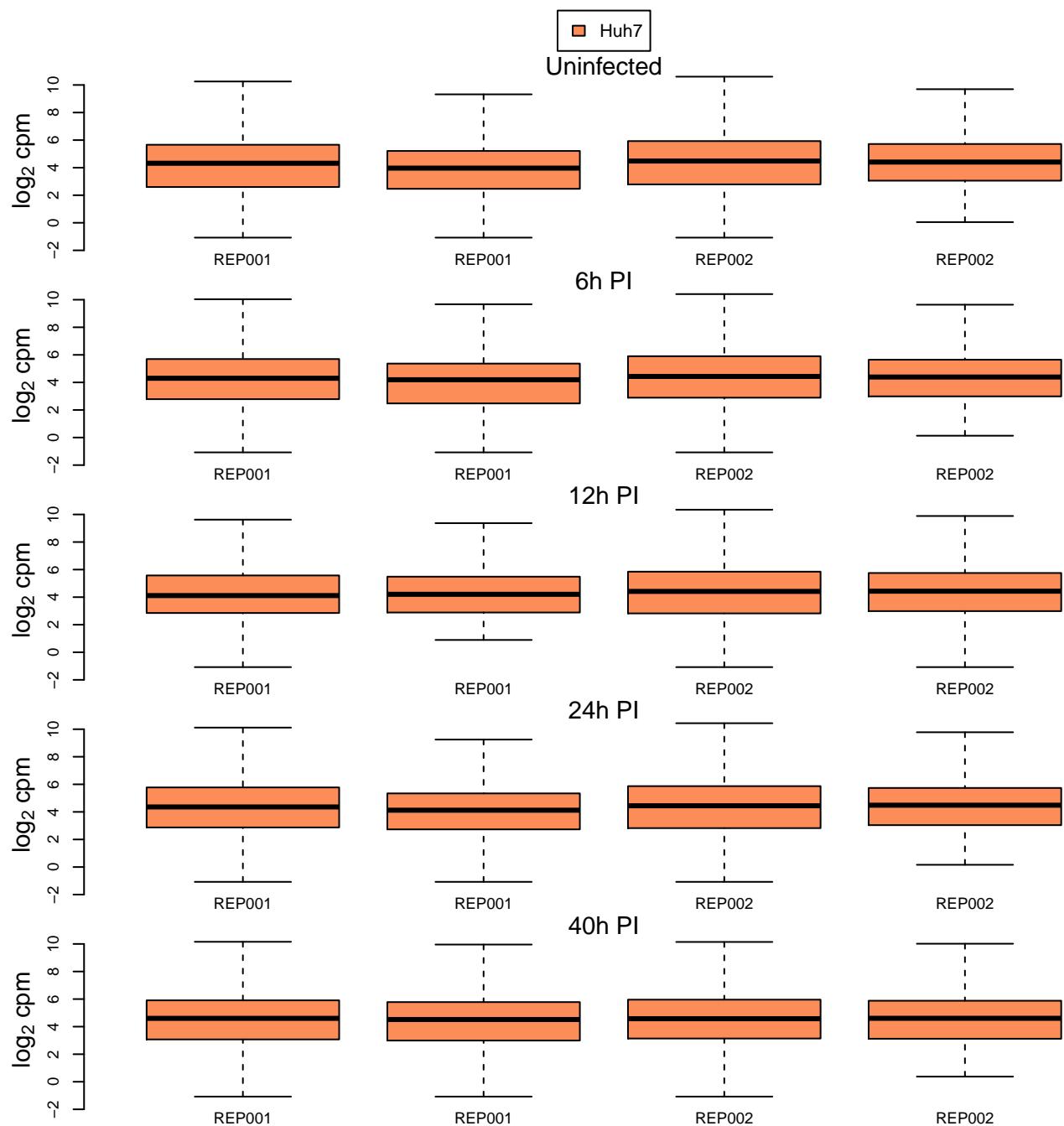


Figure 4: Boxplots of \log_2 counts per million before TMM normalization (RNA-Seq, All specimen types).

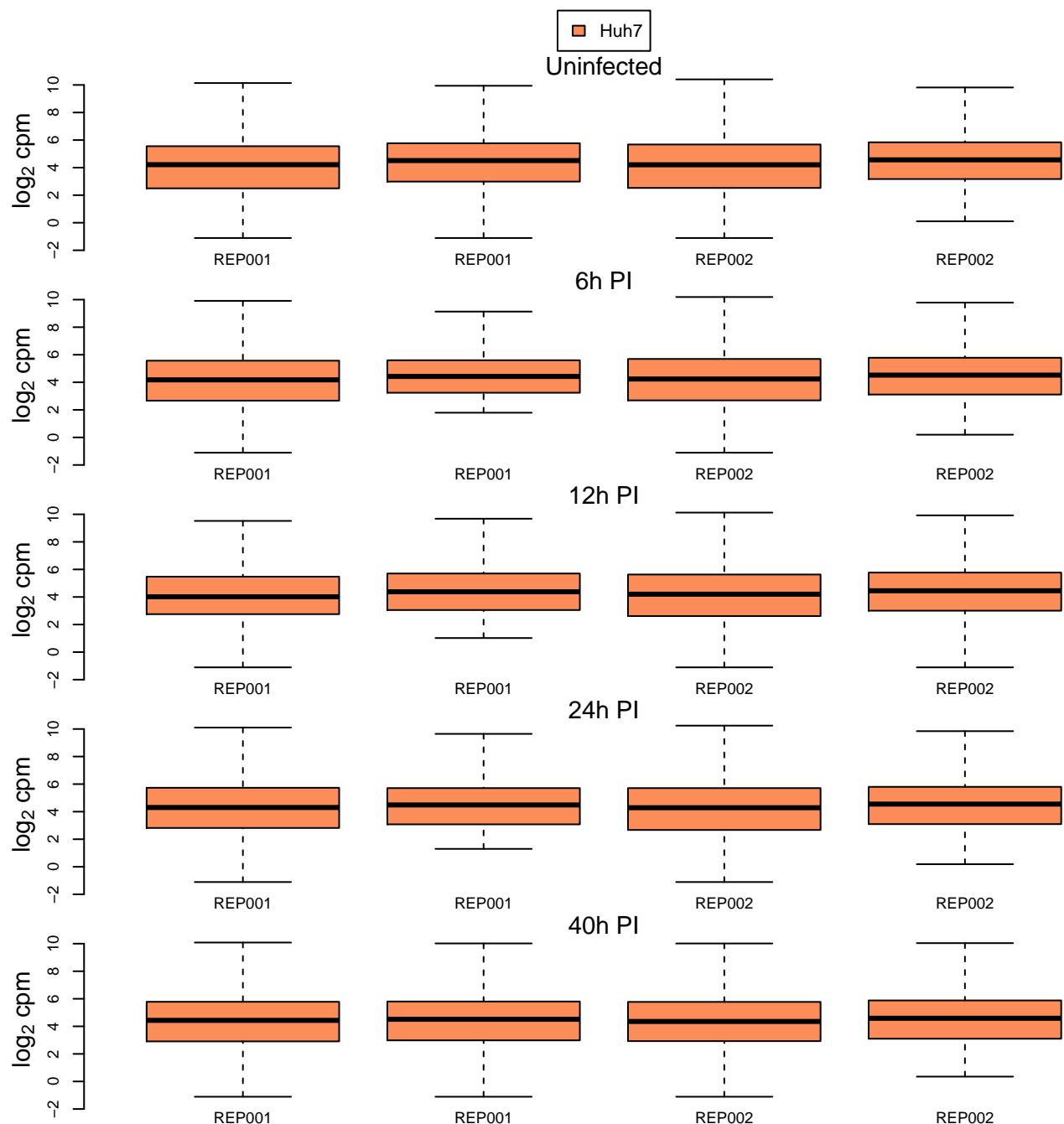


Figure 5: Boxplots of \log_2 counts per million after TMM normalization (RNA-Seq, All specimen types).

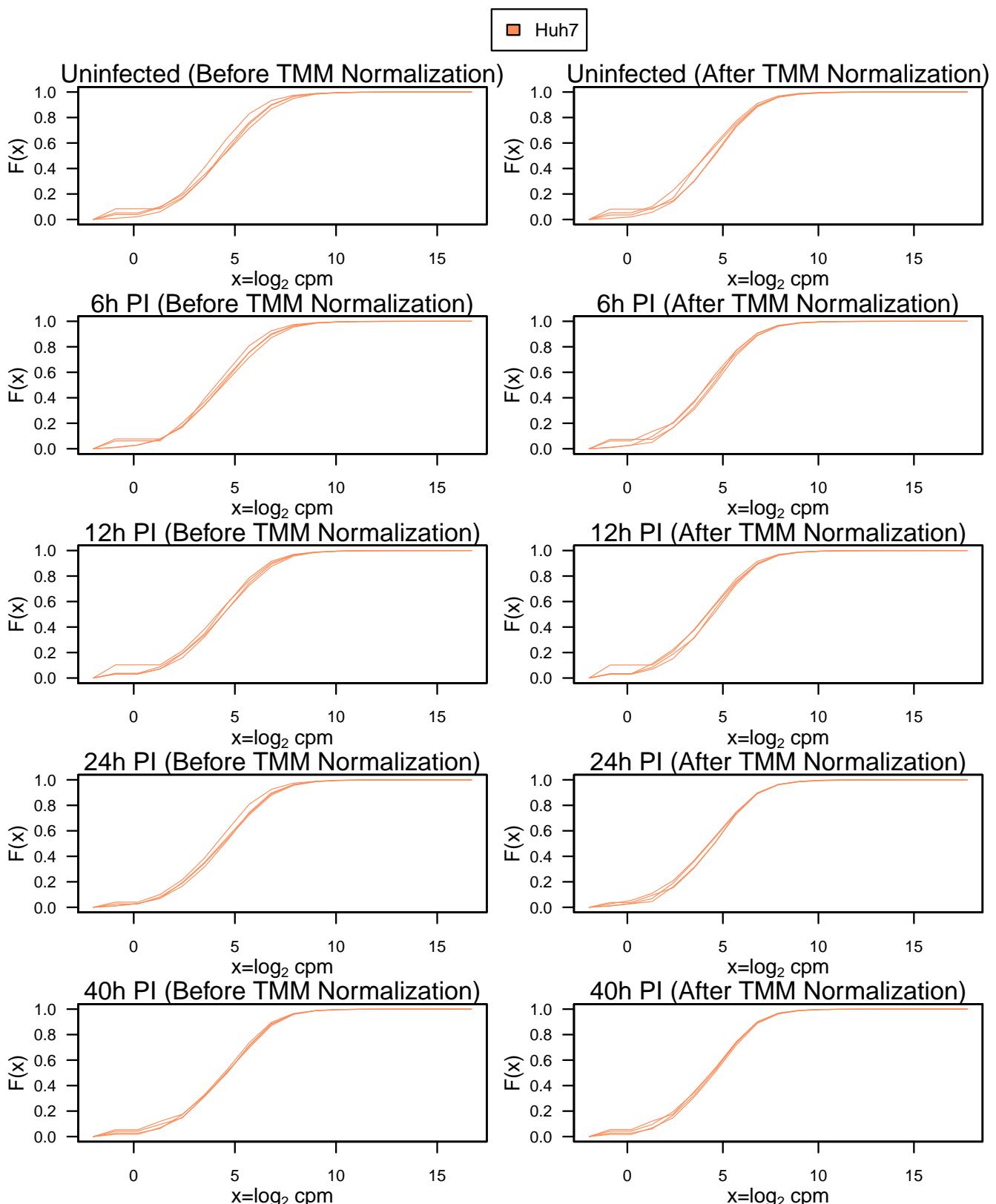


Figure 6: Empirical cumulative distribution function plots of \log_2 counts per million before and after TMM normalization (RNA-Seq, All specimen types).

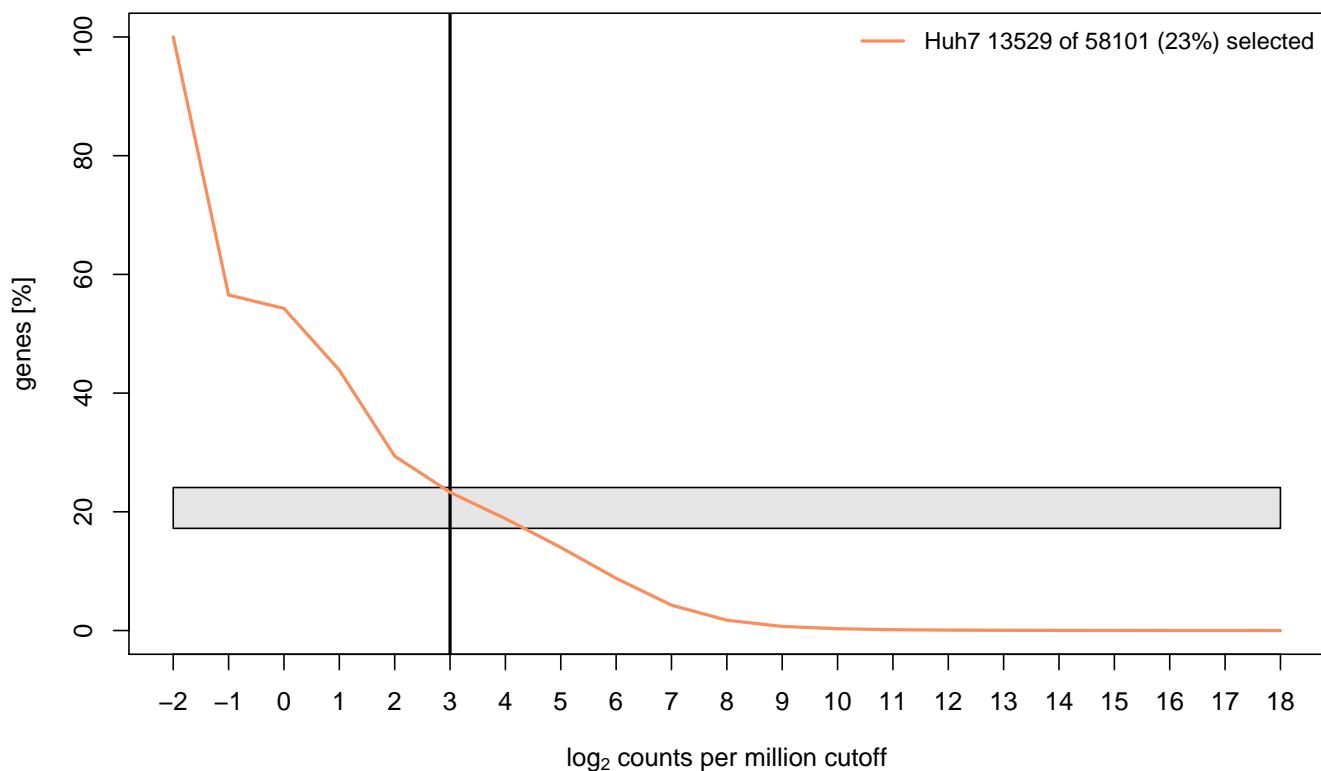


Figure 7: Reverse empirical cumulative distribution function plots of maximum gene expression levels across study samples (RNA-Seq, All specimen types). The x-axis represents the \log_2 count per million cut off for identifying lowly expressed genes. The y-axis shows the percentage of all genes whose maximum gene expression level across all study samples exceeds the respective cut off. The grey box indicates the target range of genes to be selected (between 10000 and 14000 genes). The black vertical lines represent the specified cut off ($3 \log_2$ counts per million).

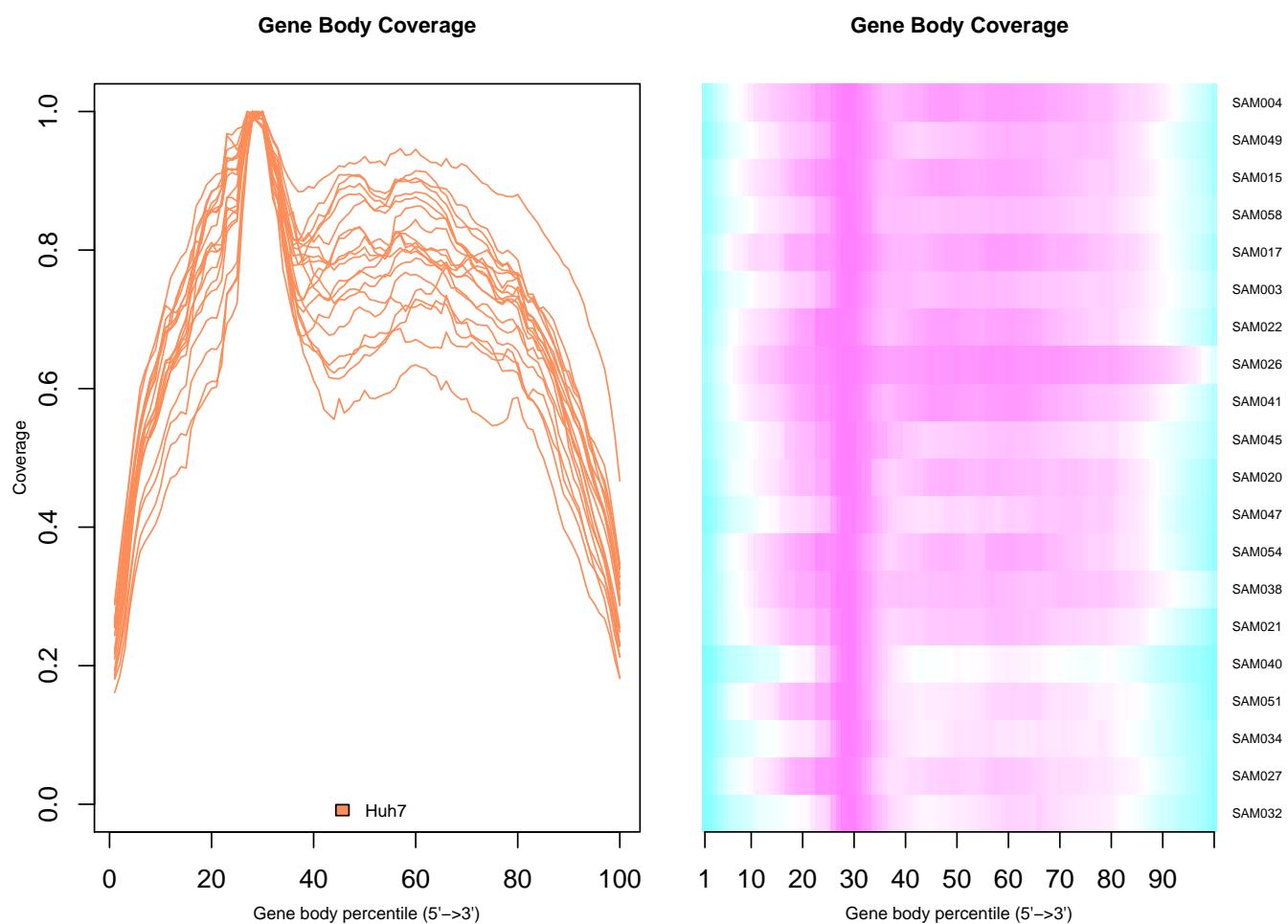


Figure 8: Gene body coverage plots (RNA-Seq).

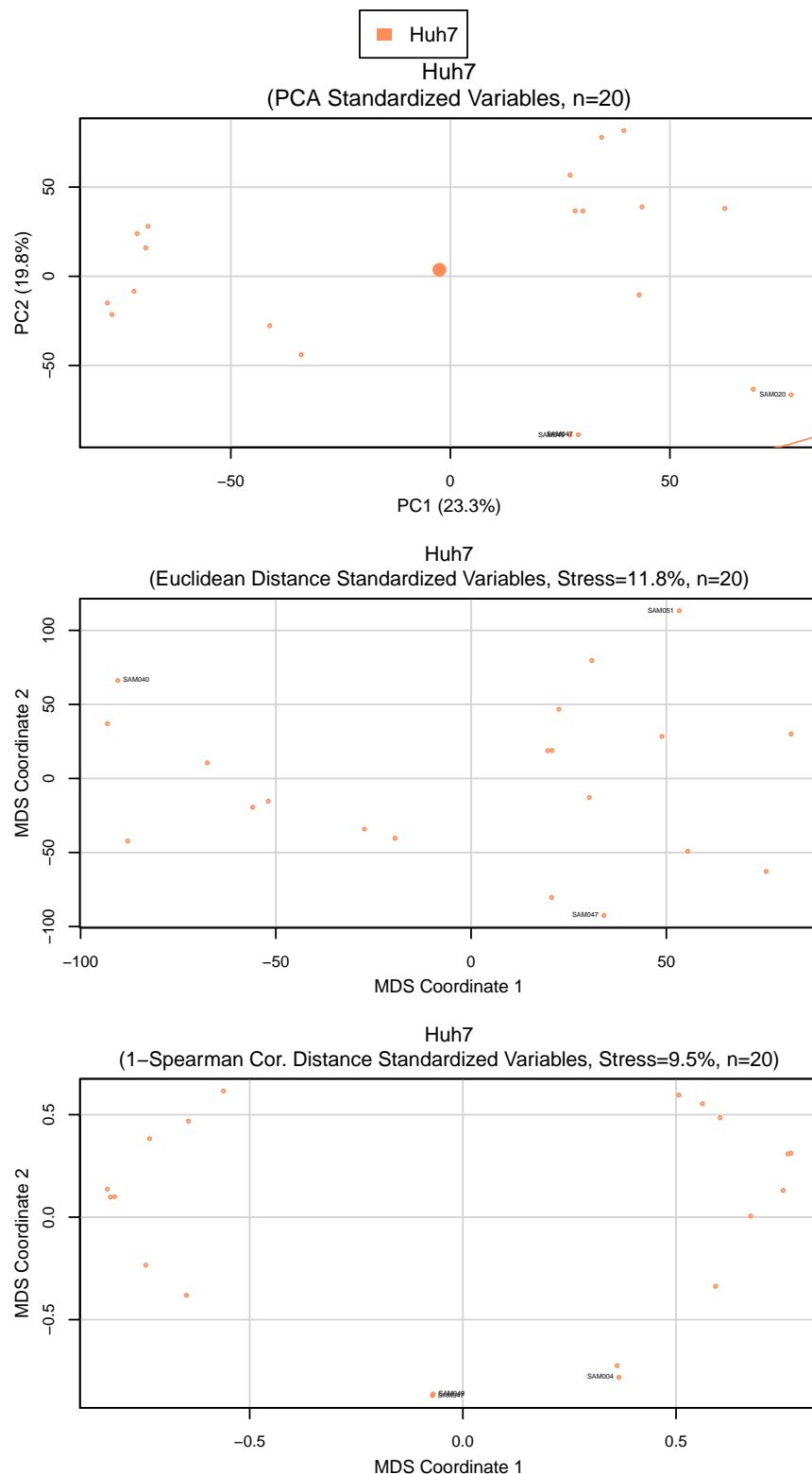


Figure 9: PCA and non-metric multidimensional scaling biplots (RNA-Seq, Huh7). PCA biplots with bivariate 95% confidence ellipses for standardized variables are shown at the top. Non-metric MDS results for standardized variables and pairwise differences based on Euclidean distance are shown in the middle. Non-metric MDS results for original variables based on 1-Spearman correlation distance are shown at the bottom. Labels for the four most outlying samples per laboratory based on maximum Mahalanobis distance are shown. Strong outliers are highlighted in blue.

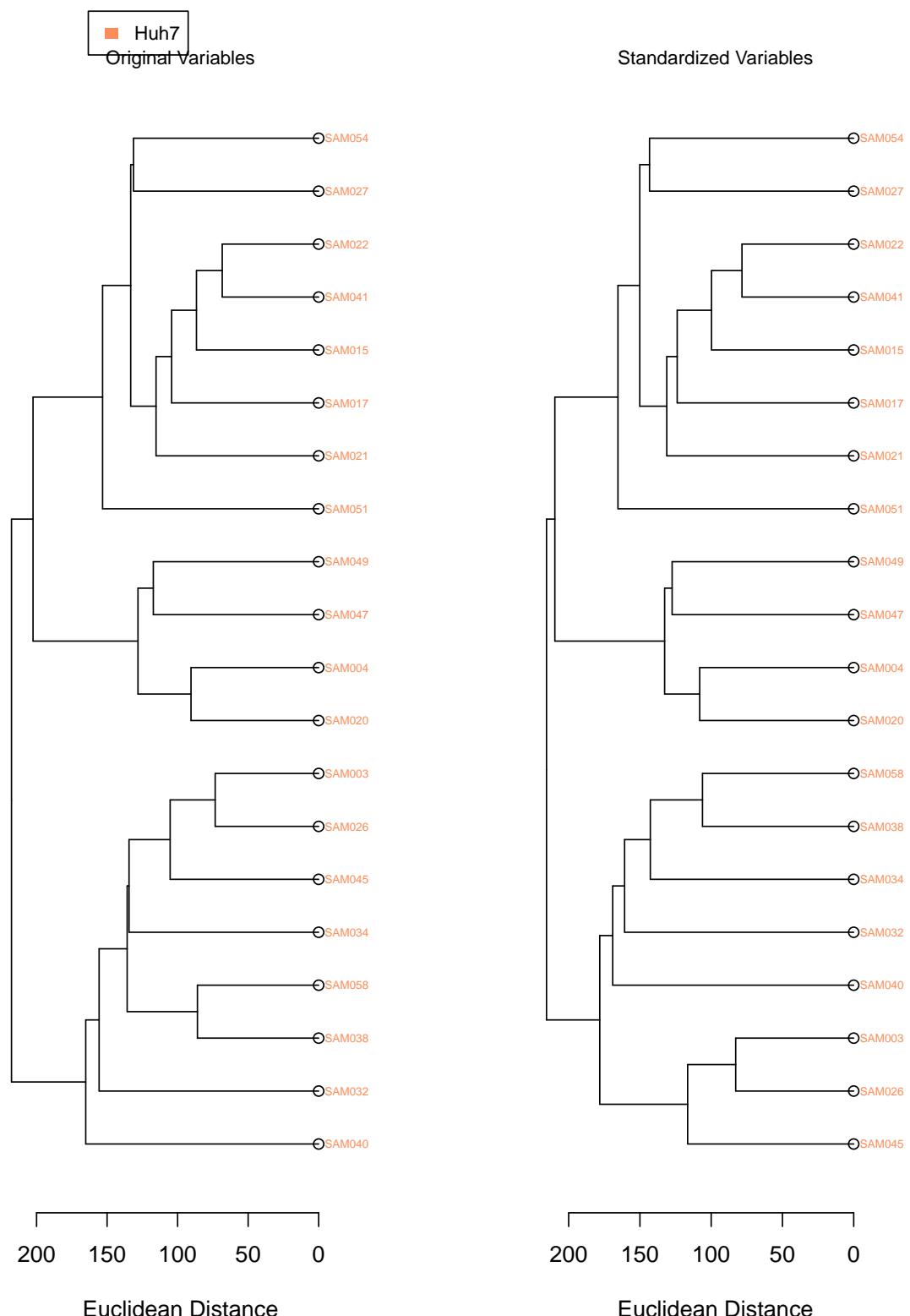


Figure 10: Hierarchical clustering plots (RNA-Seq, Huh7). Euclidean distances hierarchically clustered using the complete linkage clustering algorithm. Outliers are marked by a blue circle next to the sample ID.

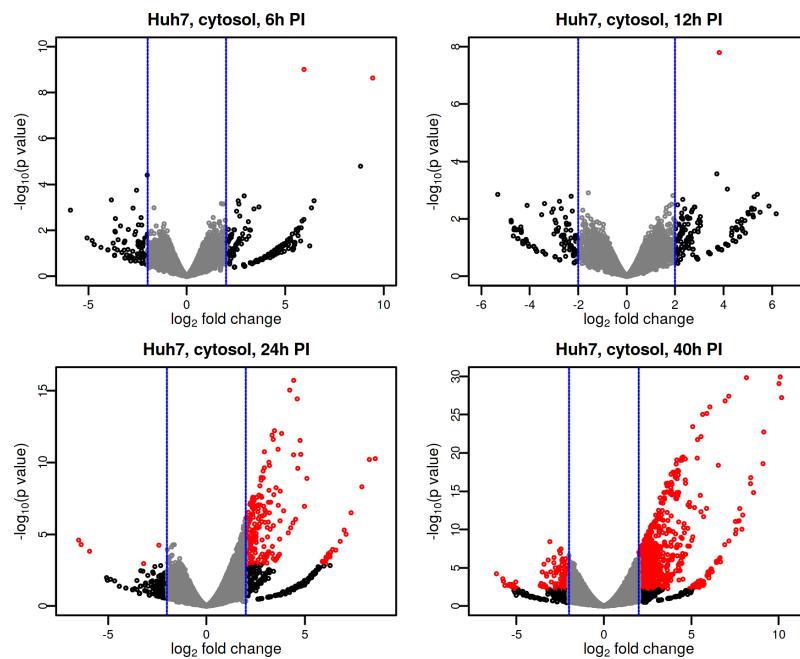


Figure 11: Volcano plots (RNA-Seq, Huh7, cytosol). In red: DE genes; in grey: genes that did not pass the fold change cut offs; in black: genes that passed the fold change cut off but were not DE.

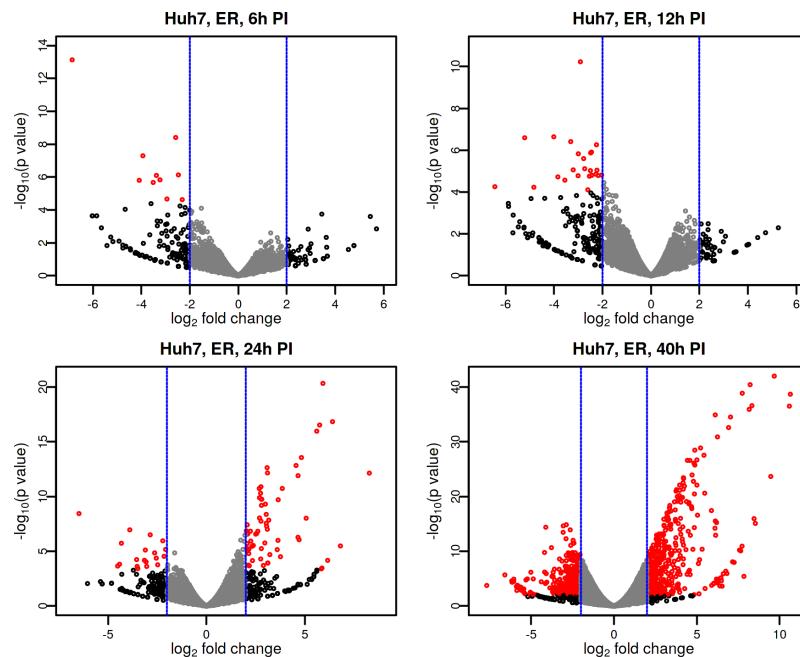


Figure 12: Volcano plots (RNA-Seq, Huh7, ER). In red: DE genes; in grey: genes that did not pass the fold change cut offs; in black: genes that passed the fold change cut off but were not DE.

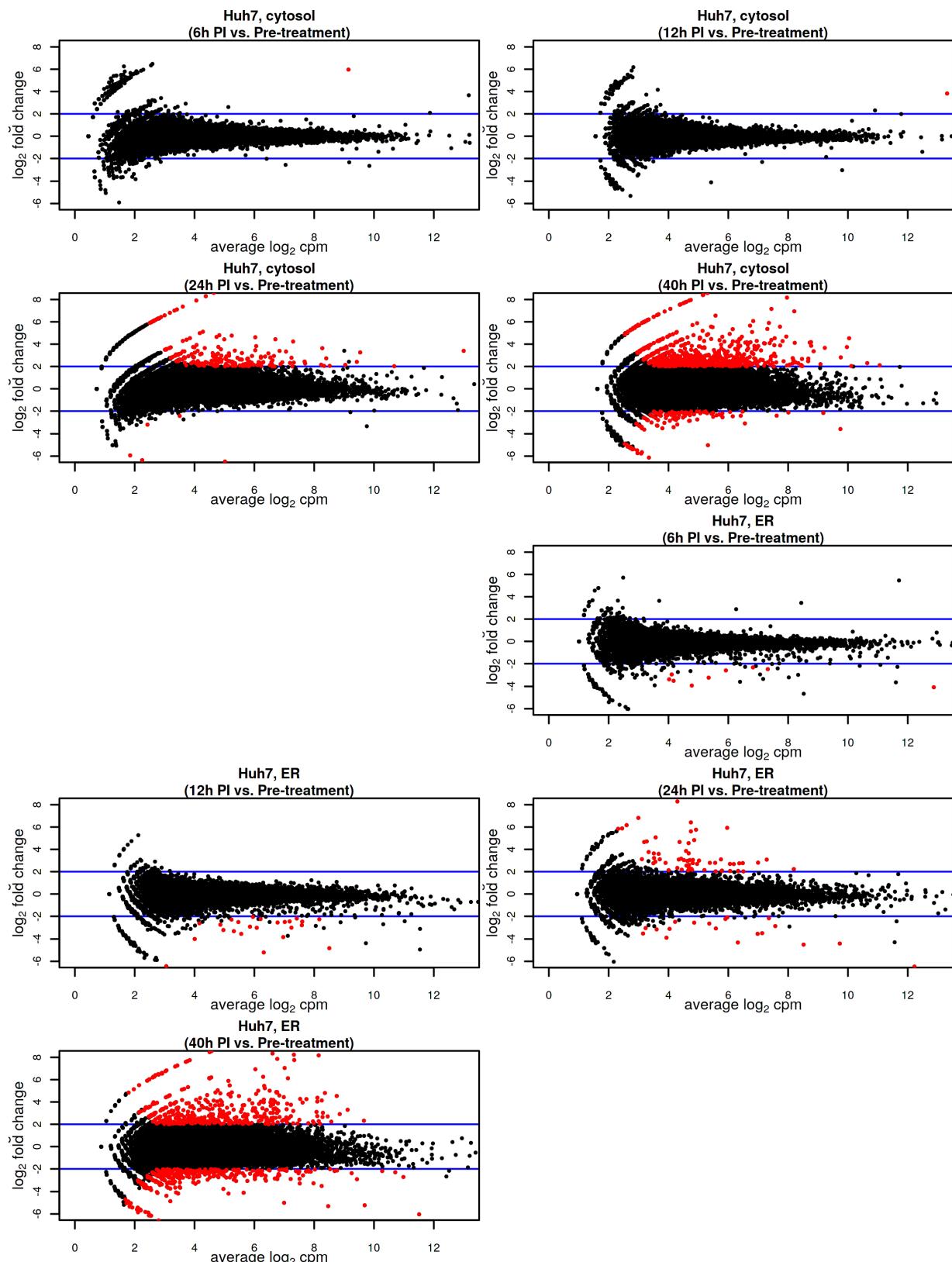


Figure 13: MA plot (RNA-Seq, Huh7). Average \log_2 counts per million is displayed on the x-axis, the y-axis shows average \log_2 fold change from pre-treatment. Blue lines indicate the pre-specified minimum fold change cut off. DE genes are colored in red. Top optimize the visualization, the largest and smallest 0.1% of logFC observations are not included ($0.1\% < x < 99.9\%$).

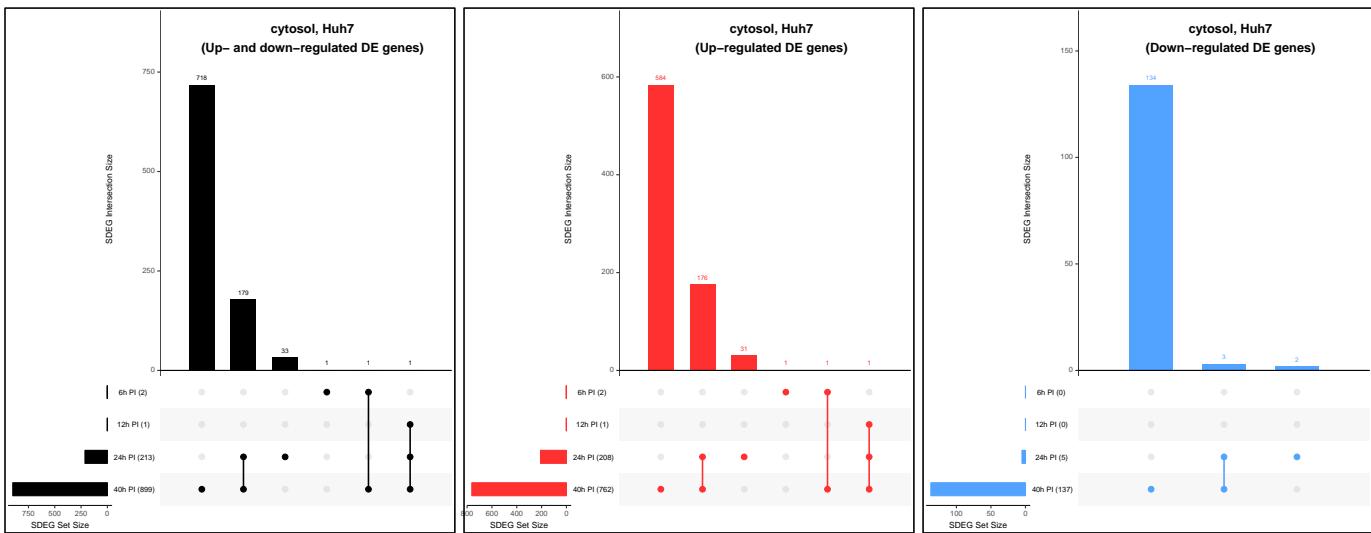


Figure 14: UpSet plots summarizing overlap in DE genes between post-treatment time points (RNA-Seq, Huh7, cytosol). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

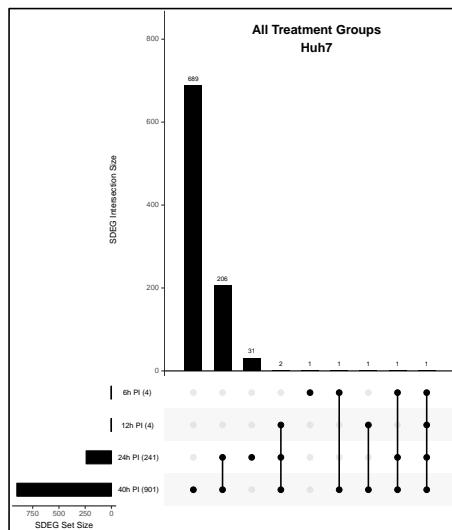


Figure 15: UpSet plots summarizing overlap in DE genes between post-treatment time points (RNA-Seq, Huh7, All treatment groups). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

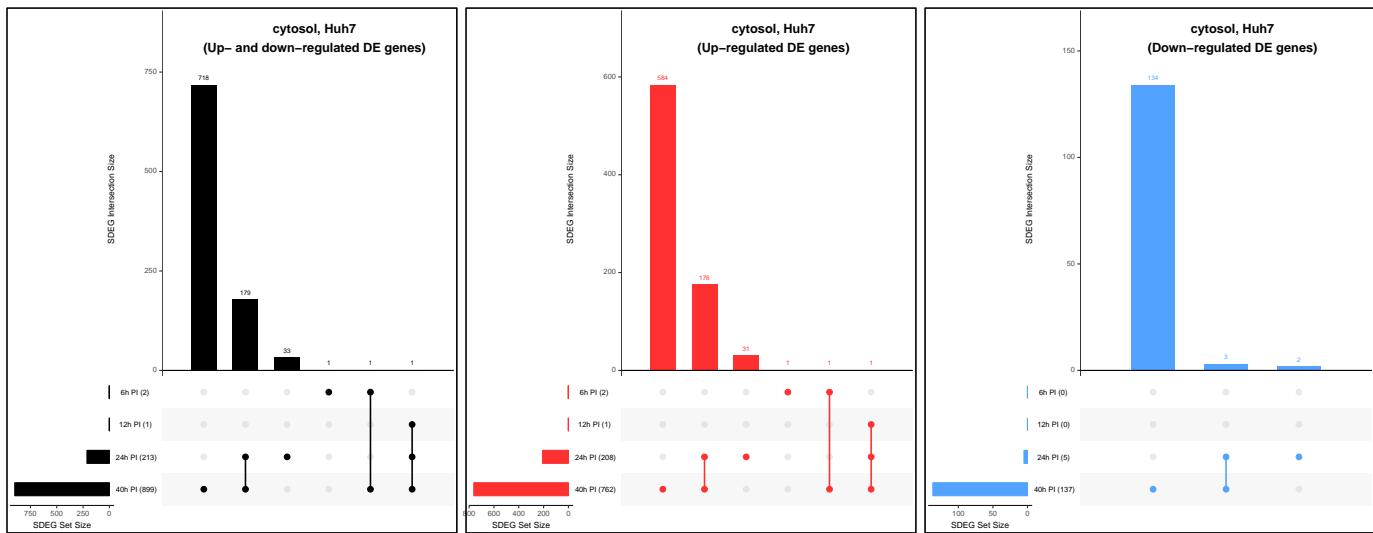


Figure 16: UpSet plots summarizing overlap in DE genes between post-treatment time points (RNA-Seq, Huh7, cytosol). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

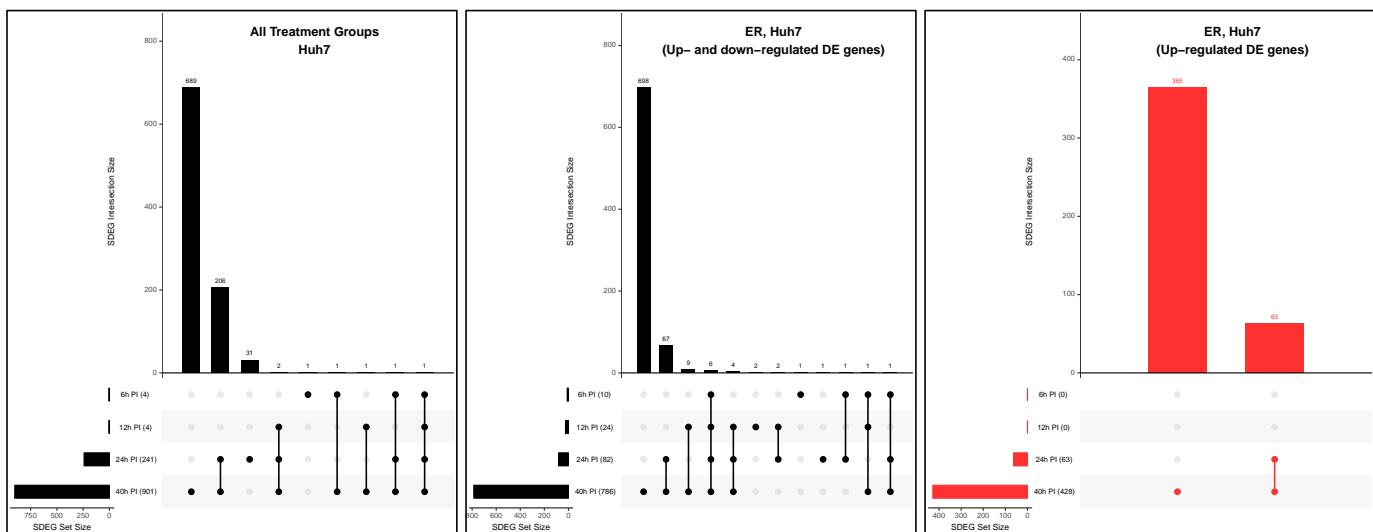


Figure 17: UpSet plots summarizing overlap in DE genes between post-treatment time points (RNA-Seq, Huh7, All treatment groups). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

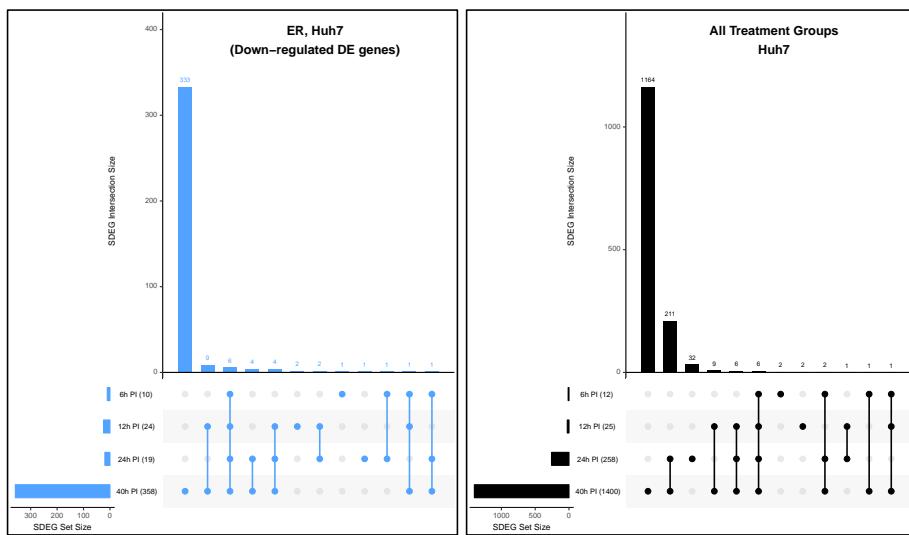


Figure 18: UpSet plots summarizing overlap in DE genes between post-treatment time points (RNA-Seq, Huh7, cytosol). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

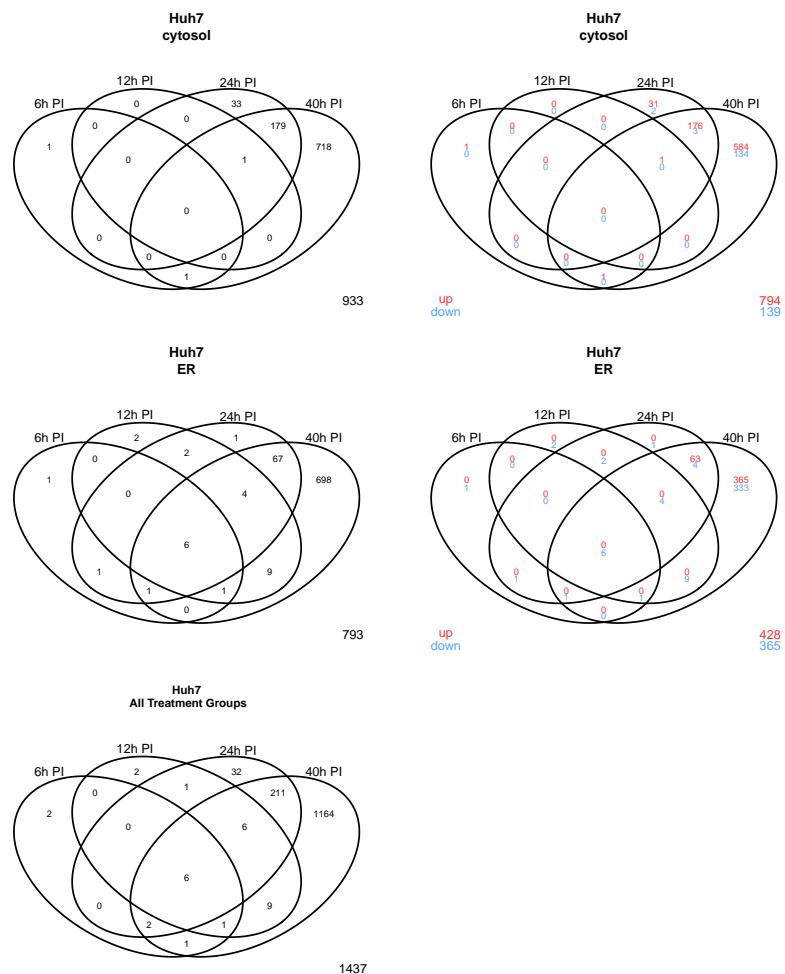


Figure 19: Venn diagrams summarizing overlap in DE genes between post-treatment time points (RNA-Seq, Huh7). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

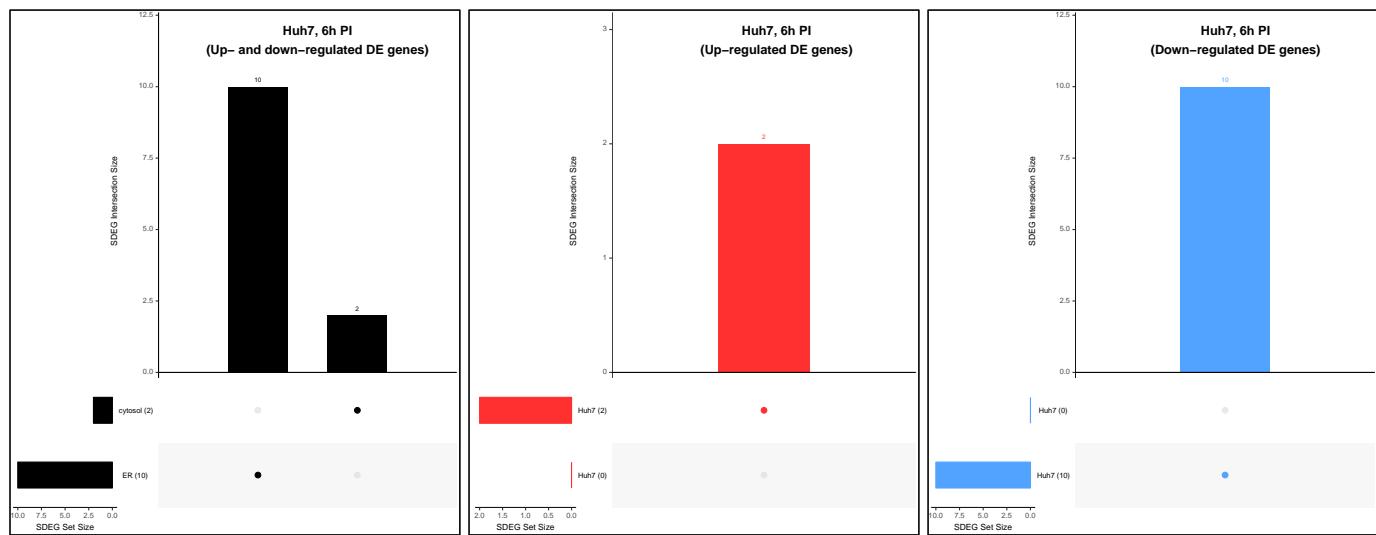


Figure 20: UpSet plots summarizing overlap in DE genes between treatment groups (RNA-Seq, Huh7, 6h PI). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

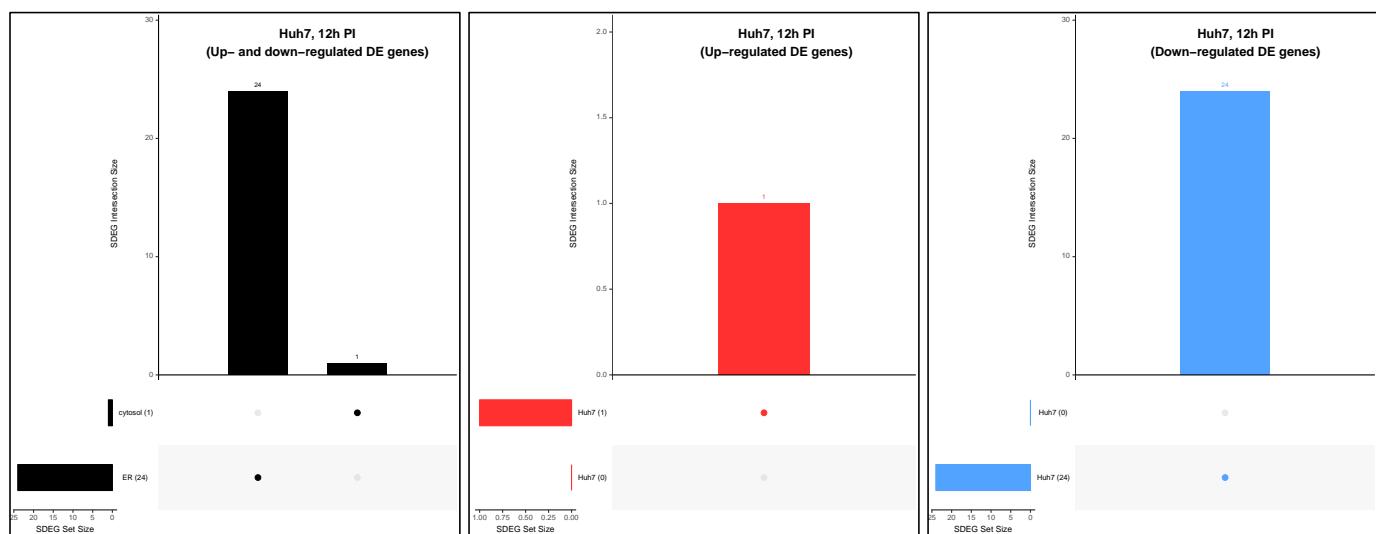


Figure 21: UpSet plots summarizing overlap in DE genes between treatment groups (RNA-Seq, Huh7, 12h PI). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

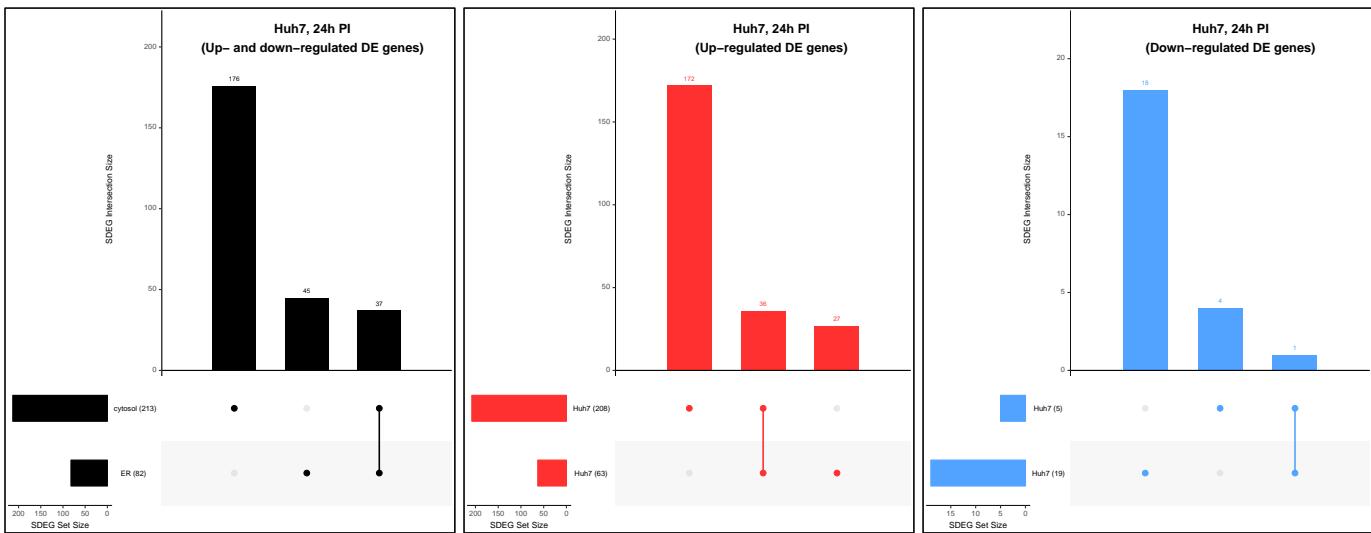


Figure 22: UpSet plots summarizing overlap in DE genes between treatment groups (RNA-Seq, Huh7, 24h PI). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

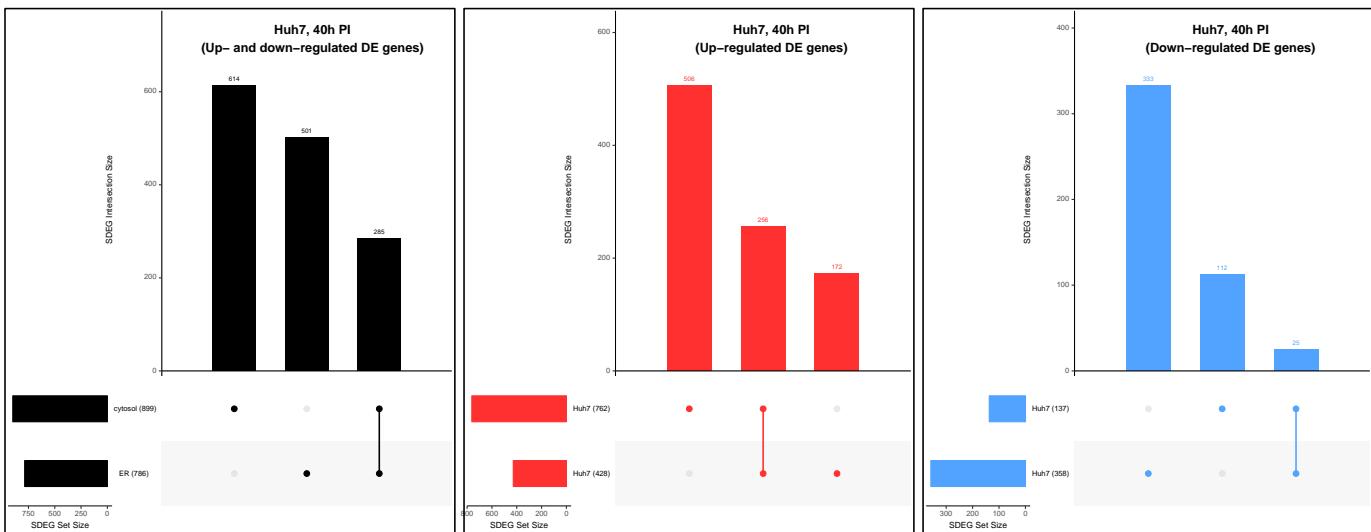


Figure 23: UpSet plots summarizing overlap in DE genes between treatment groups (RNA-Seq, Huh7, 40h PI). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

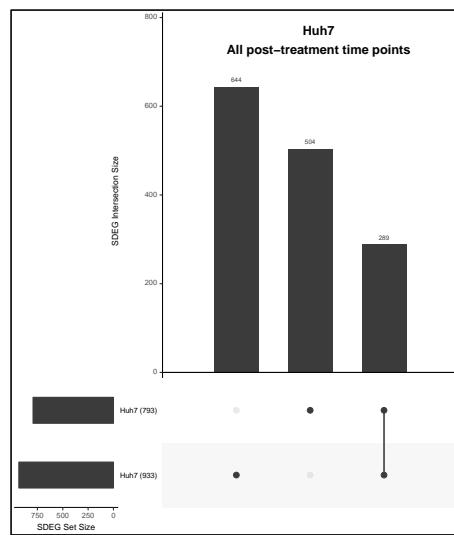


Figure 24: UpSet plots summarizing overlap in DE genes between treatment groups (RNA-Seq, Huh7, All post-treatment time points). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

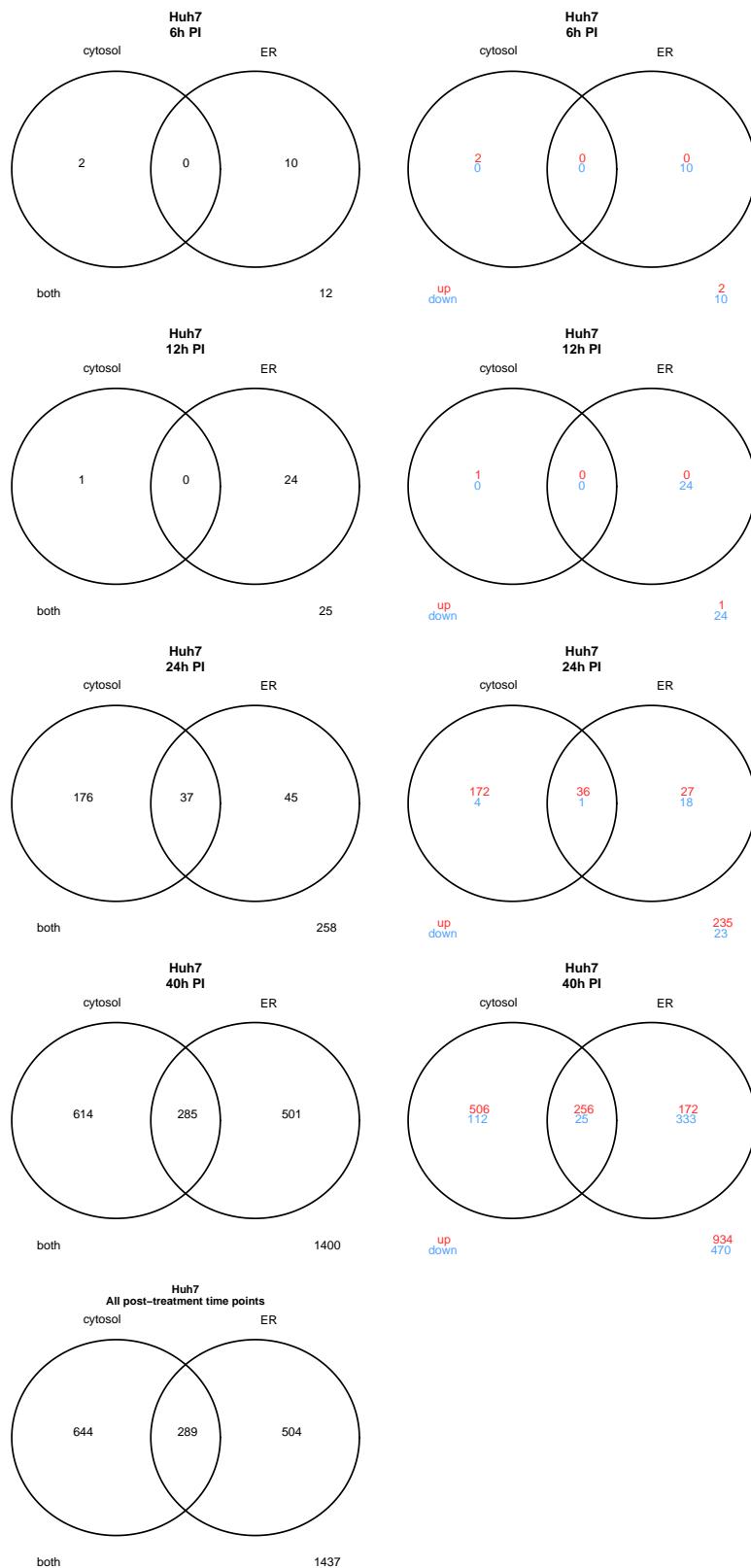


Figure 25: Venn diagrams summarizing overlap in DE genes between treatment groups (RNA-Seq, Huh7). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

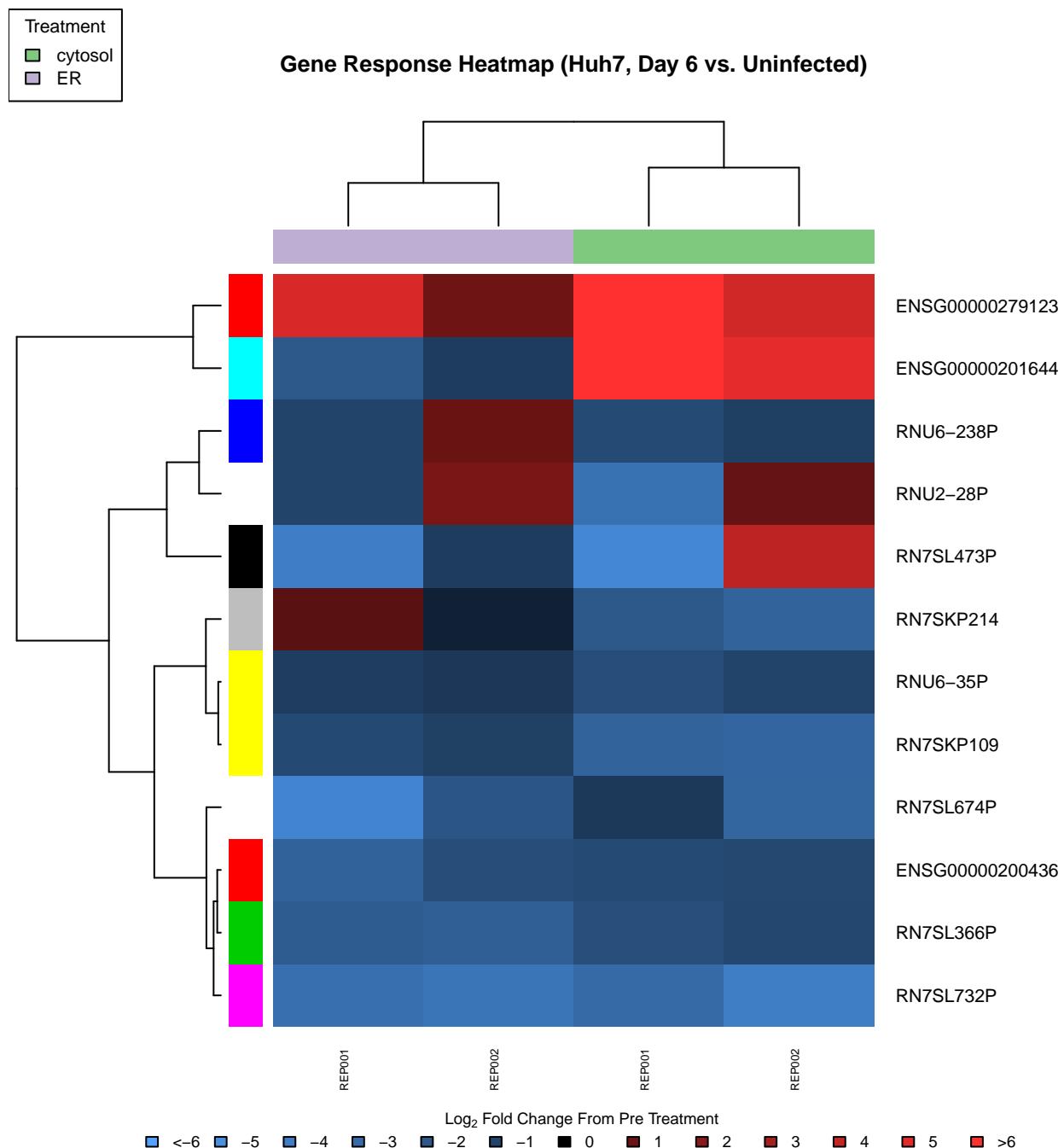


Figure 26: Heatmap of \log_2 fold change from pre-treatment (RNA-Seq, Huh7, 6h PI). Rows represent DE genes across treatment types, columns represent samples. In red: up regulated compared to pre-treatment; in green: down-regulated compared to pre-treatment. Dendograms were obtained using complete linkage clustering of uncentered pairwise Pearson correlation distances for \log_2 fold changes. Samples are color-coded by treatment group (see row below sample dendrogram).

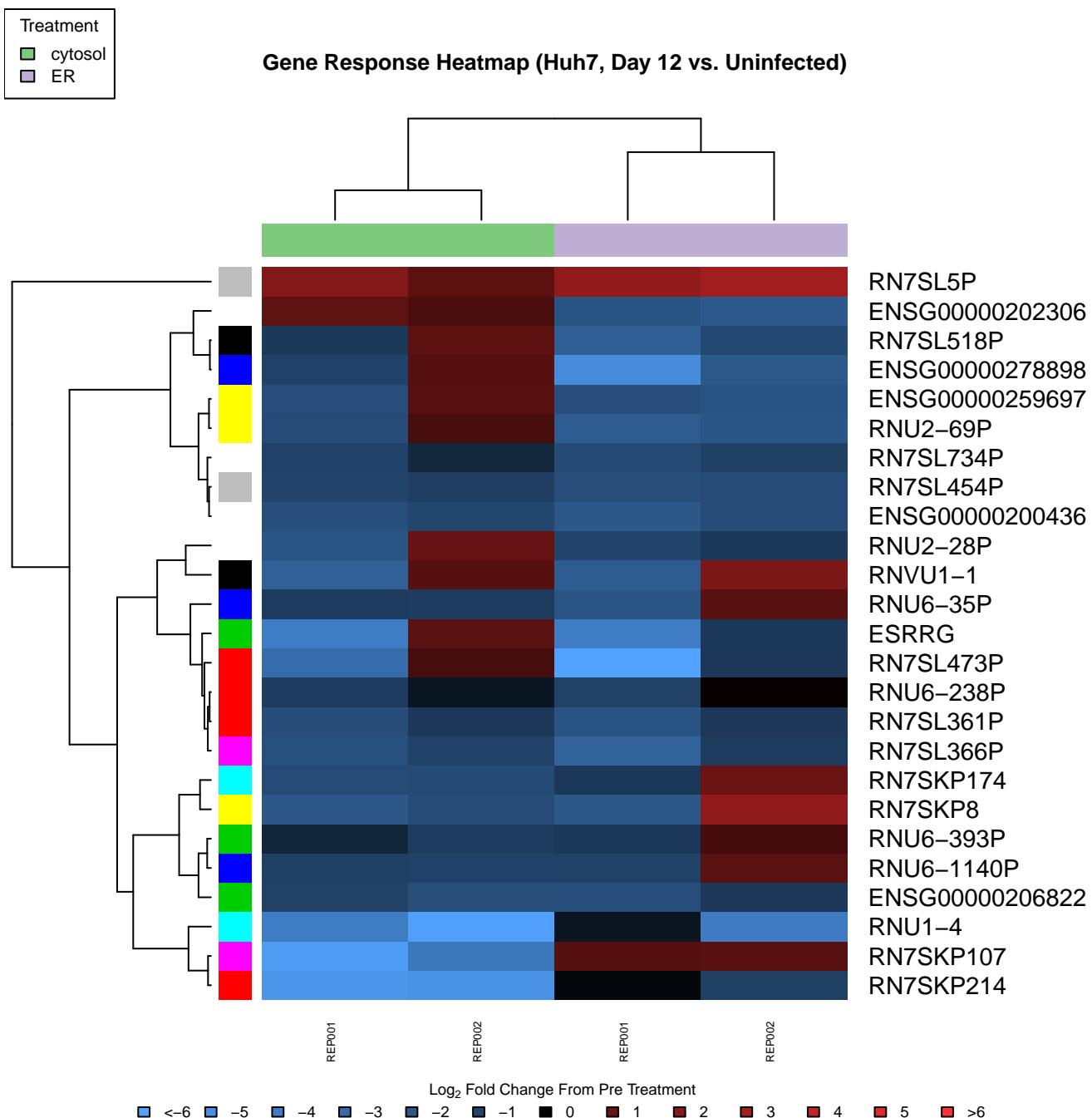


Figure 27: Heatmap of \log_2 fold change from pre-treatment (RNA-Seq, Huh7, 12h PI). Rows represent DE genes across treatment types, columns represent samples. In red: up regulated compared to pre-treatment; in green: down-regulated compared to pre-treatment. Dendograms were obtained using complete linkage clustering of uncentered pairwise Pearson correlation distances for \log_2 fold changes. Samples are color-coded by treatment group (see row below sample dendrogram).

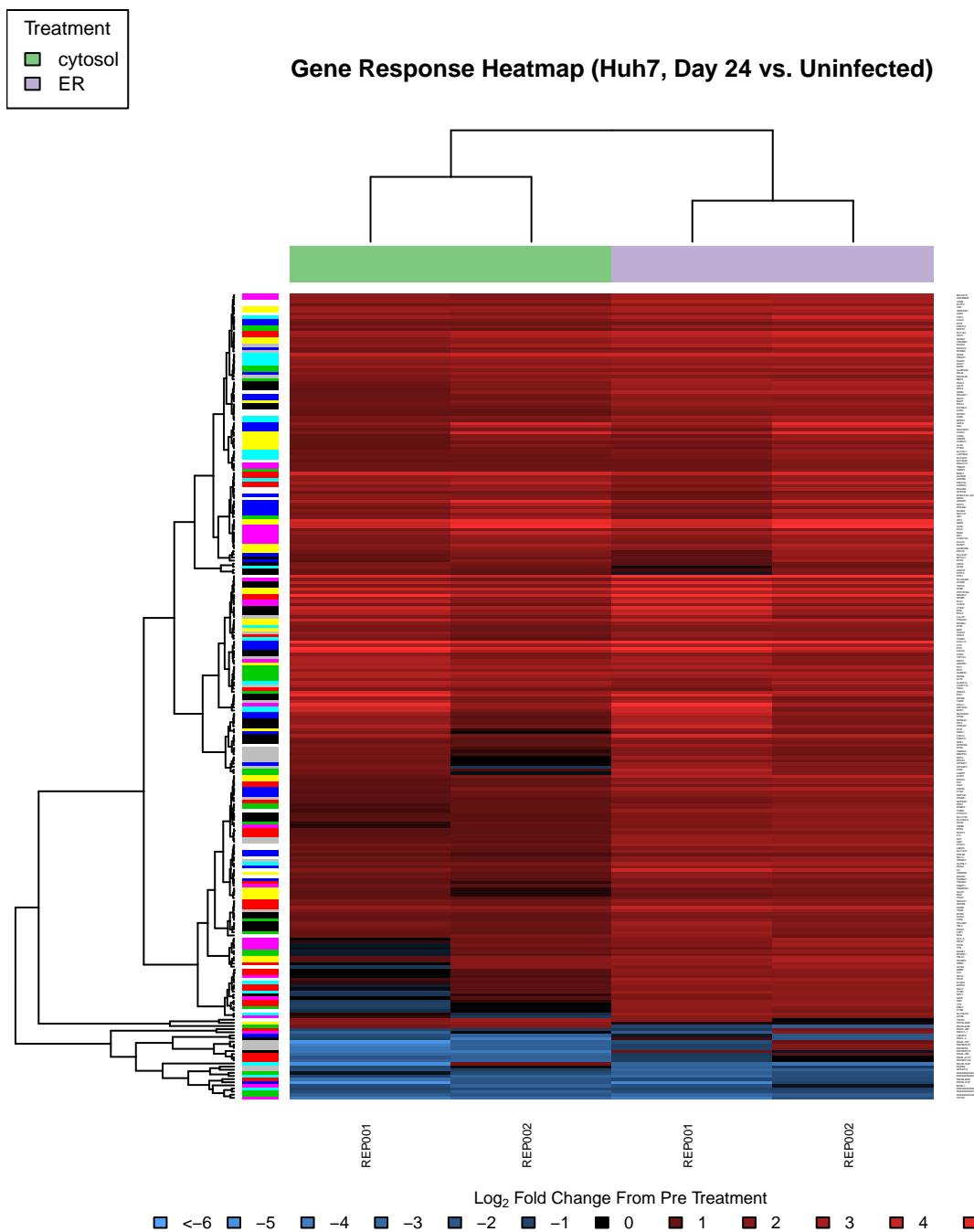


Figure 28: Heatmap of \log_2 fold change from pre-treatment (RNA-Seq, Huh7, 24h PI). Rows represent DE genes across treatment types, columns represent samples. In red: up regulated compared to pre-treatment; in green: down-regulated compared to pre-treatment. Dendograms were obtained using complete linkage clustering of uncentered pairwise Pearson correlation distances for \log_2 fold changes. Samples are color-coded by treatment group (see row below sample dendrogram).

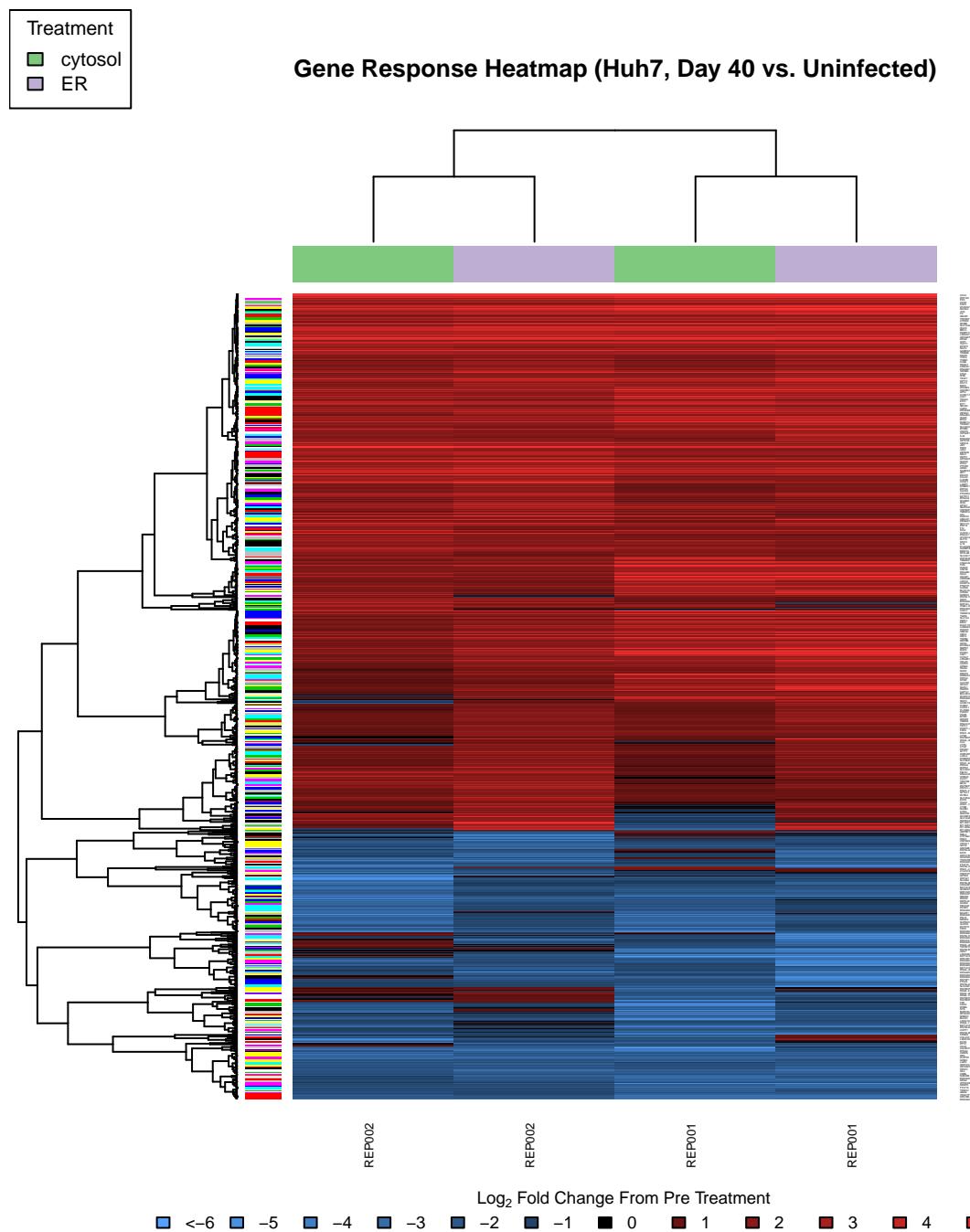


Figure 29: Heatmap of \log_2 fold change from pre-treatment (RNA-Seq, Huh7, 40h PI). Rows represent DE genes across treatment types, columns represent samples. In red: up regulated compared to pre-treatment; in green: down-regulated compared to pre-treatment. Dendograms were obtained using complete linkage clustering of uncentered pairwise Pearson correlation distances for \log_2 fold changes. Samples are color-coded by treatment group (see row below sample dendrogram).

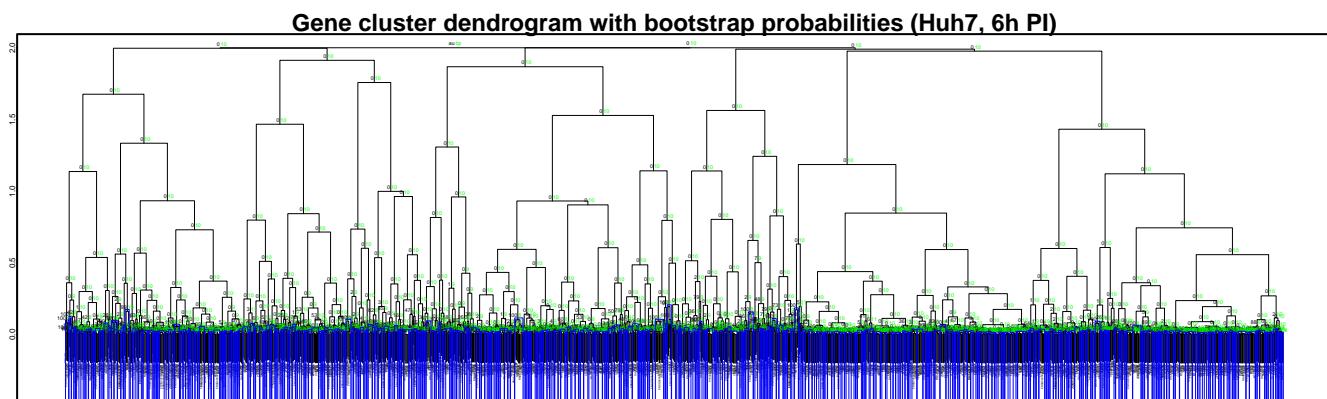


Figure 30: Co-expressed gene cluster dendrogram with bootstrap probabilities (RNA-Seq, Huh7, 6h PI). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

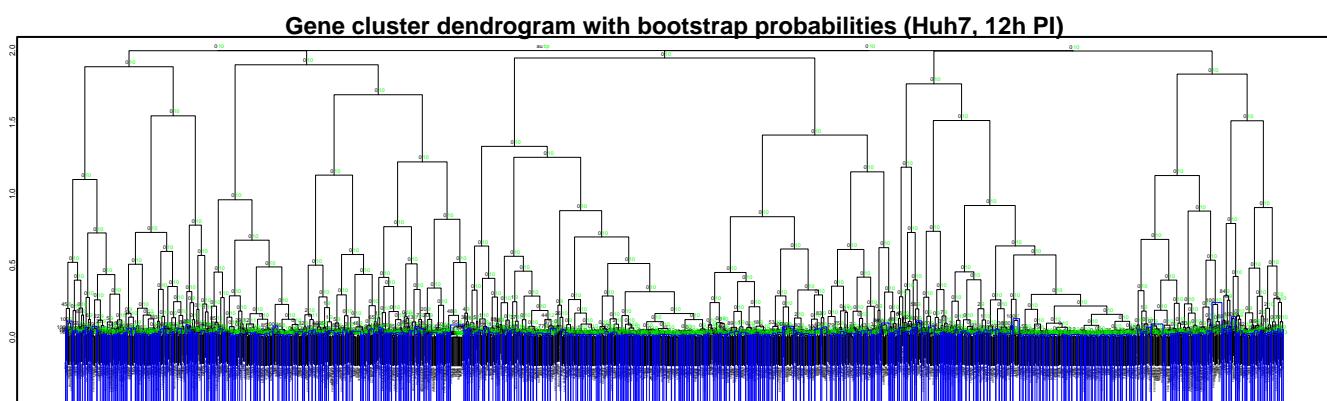


Figure 31: Co-expressed gene cluster dendrogram with bootstrap probabilities (RNA-Seq, Huh7, 12h PI). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

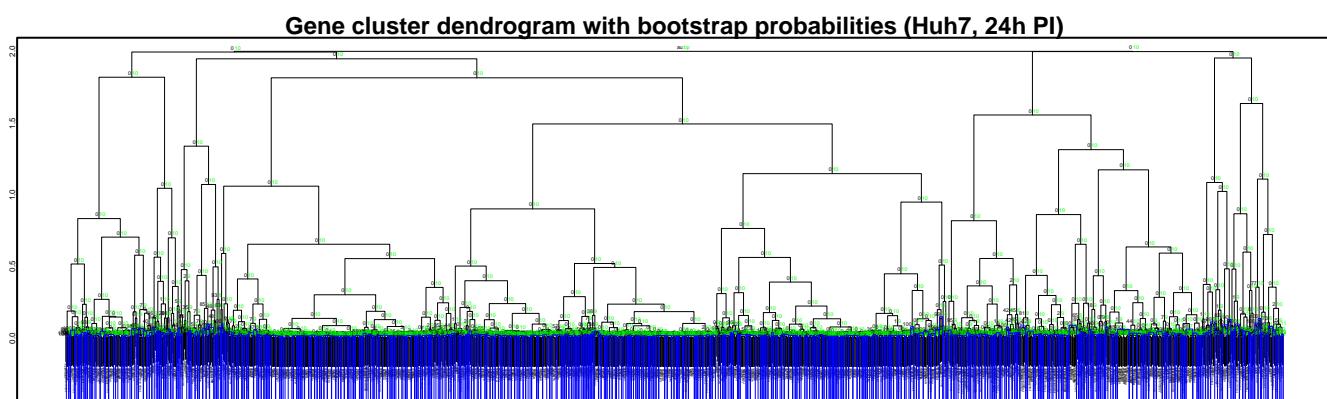


Figure 32: Co-expressed gene cluster dendrogram with bootstrap probabilities (RNA-Seq, Huh7, 24h PI). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

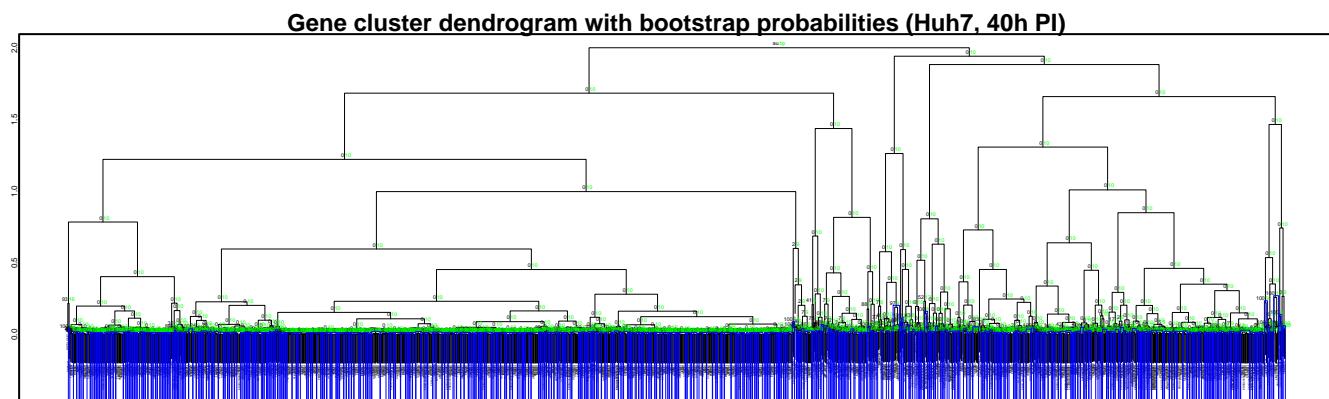


Figure 33: Co-expressed gene cluster dendrogram with bootstrap probabilities (RNA-Seq, Huh7, 40h PI). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

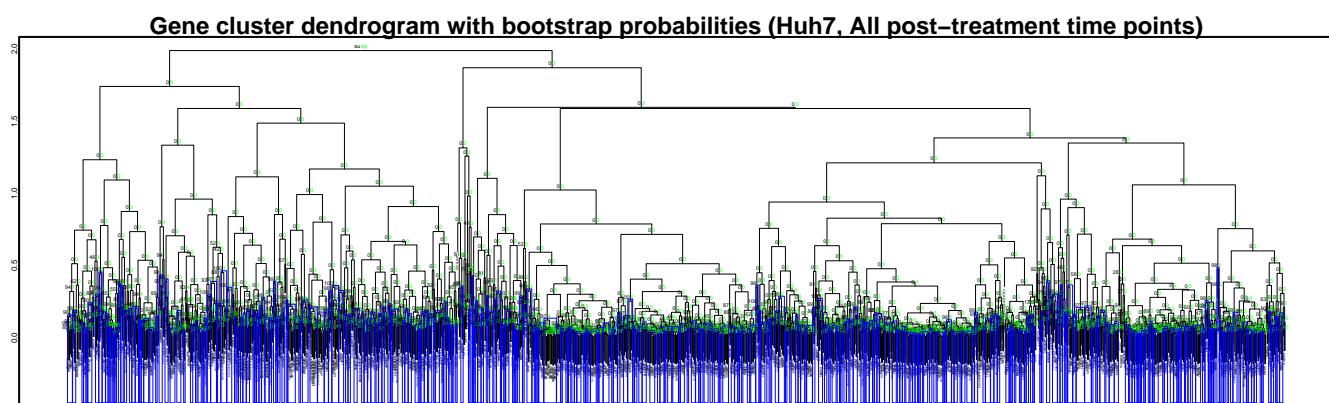


Figure 34: Co-expressed gene cluster dendrogram with bootstrap probabilities (RNA-Seq, Huh7, All post-treatment time points). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

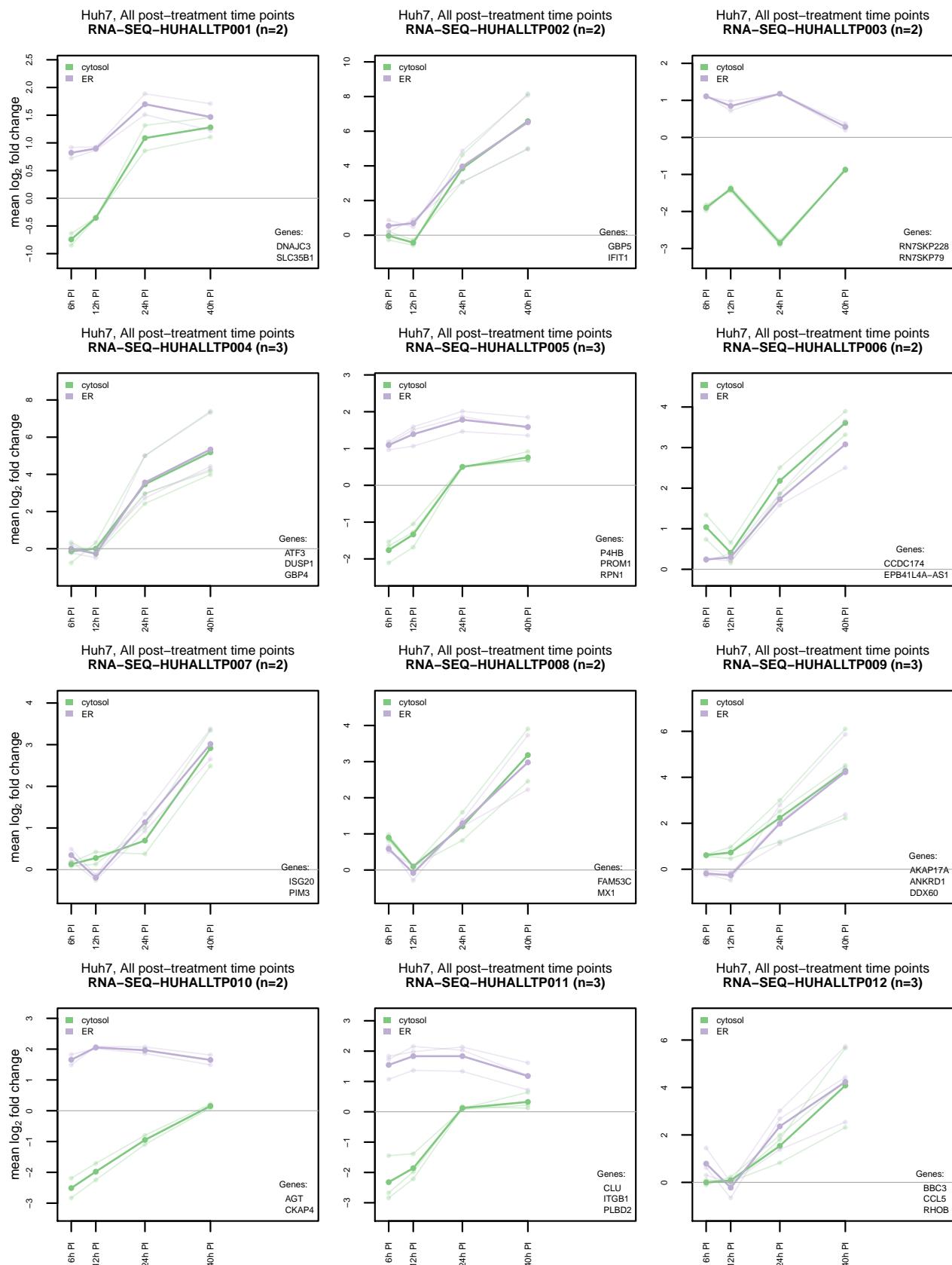


Figure 35: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 1 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

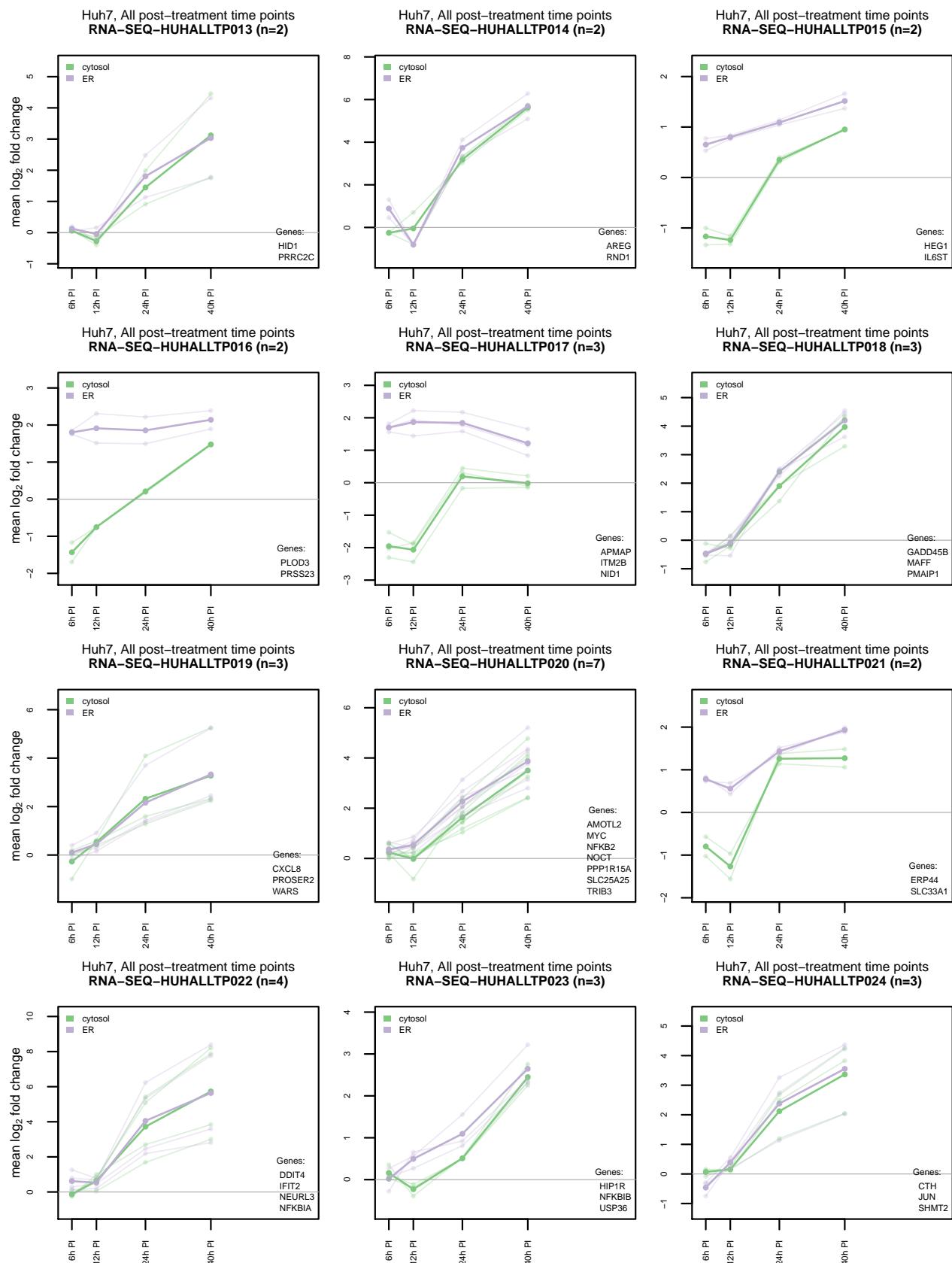


Figure 36: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 2 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

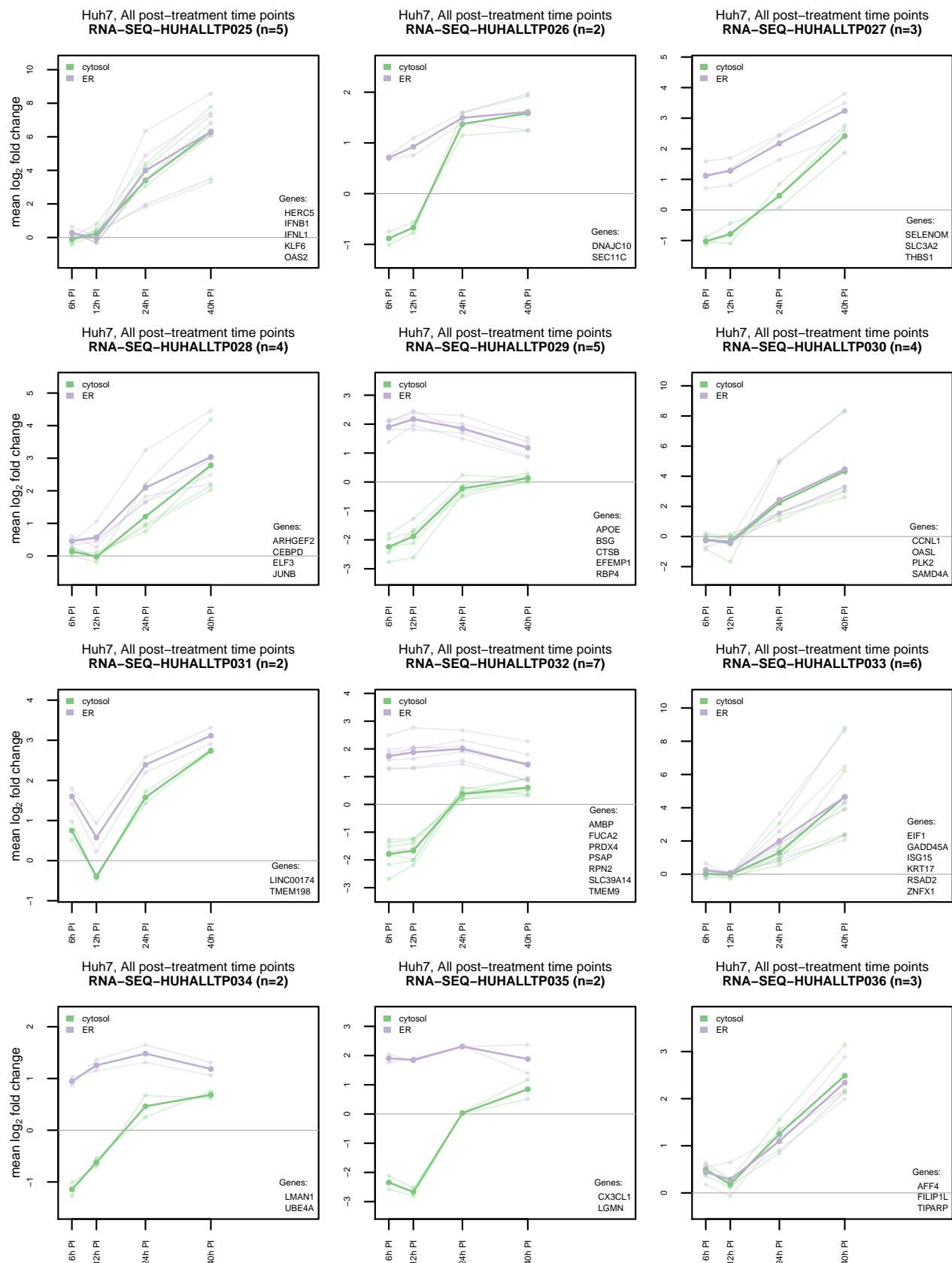


Figure 37: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 3 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

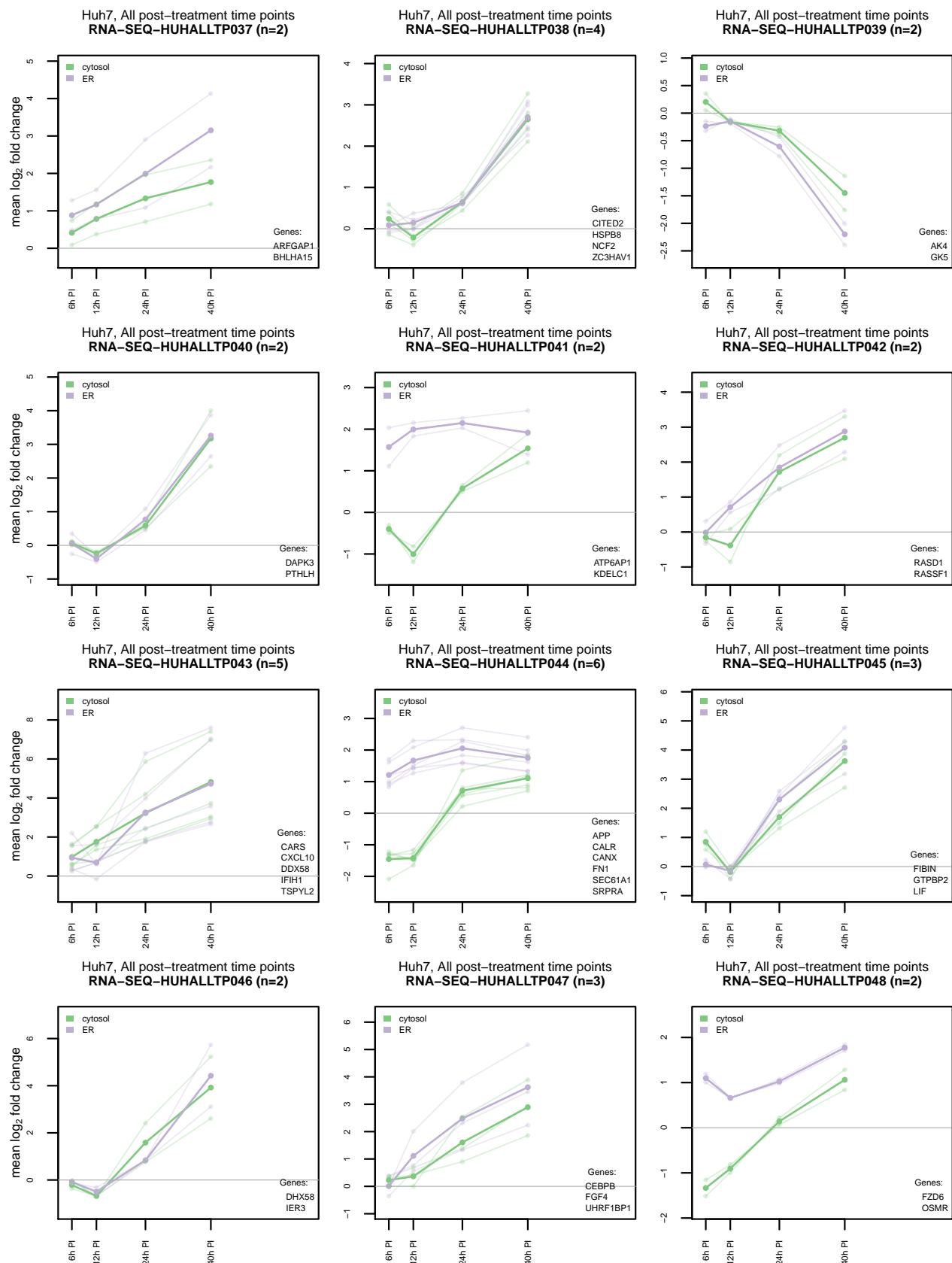


Figure 38: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 4 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

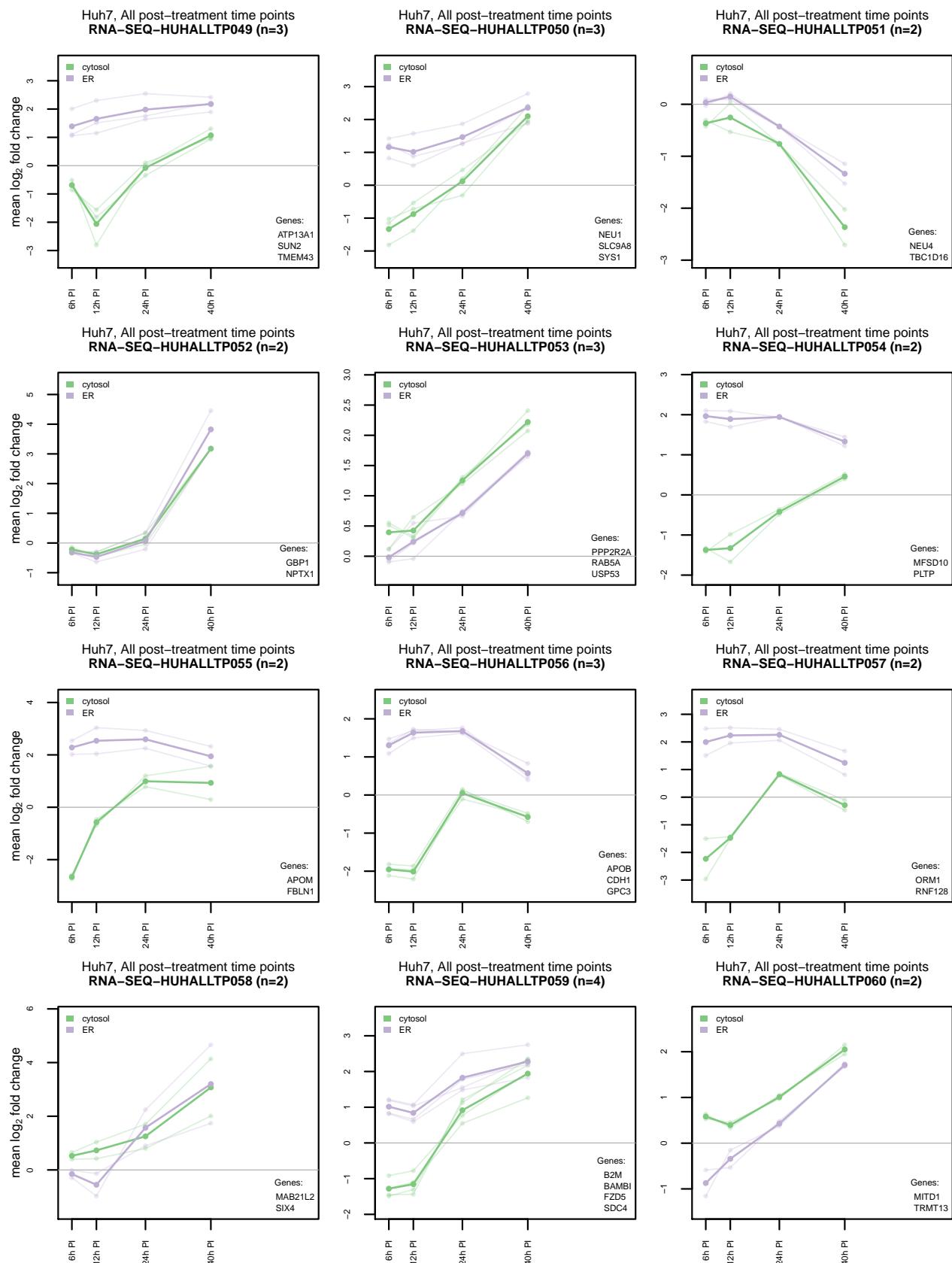


Figure 39: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 5 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

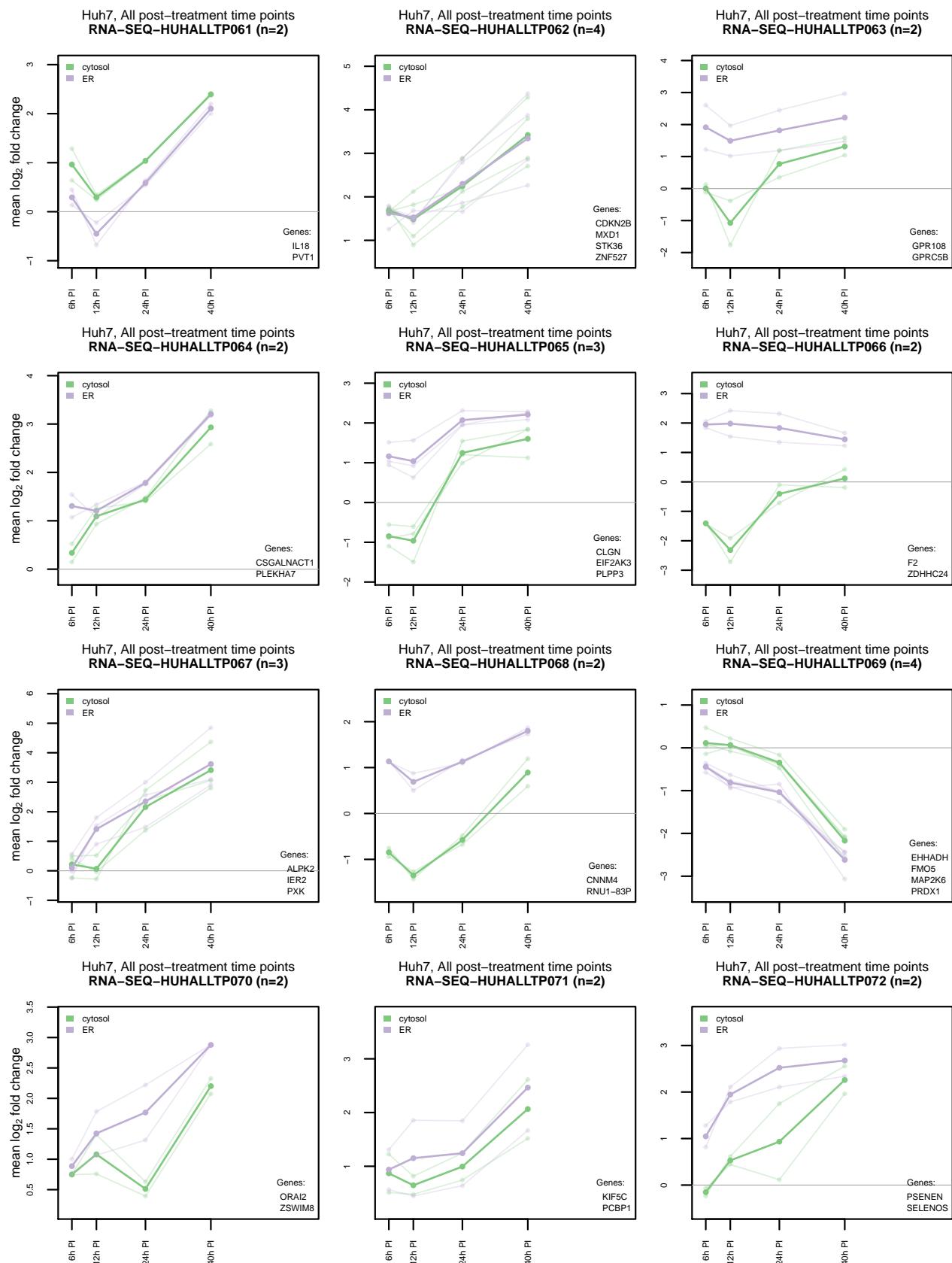


Figure 40: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 6 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

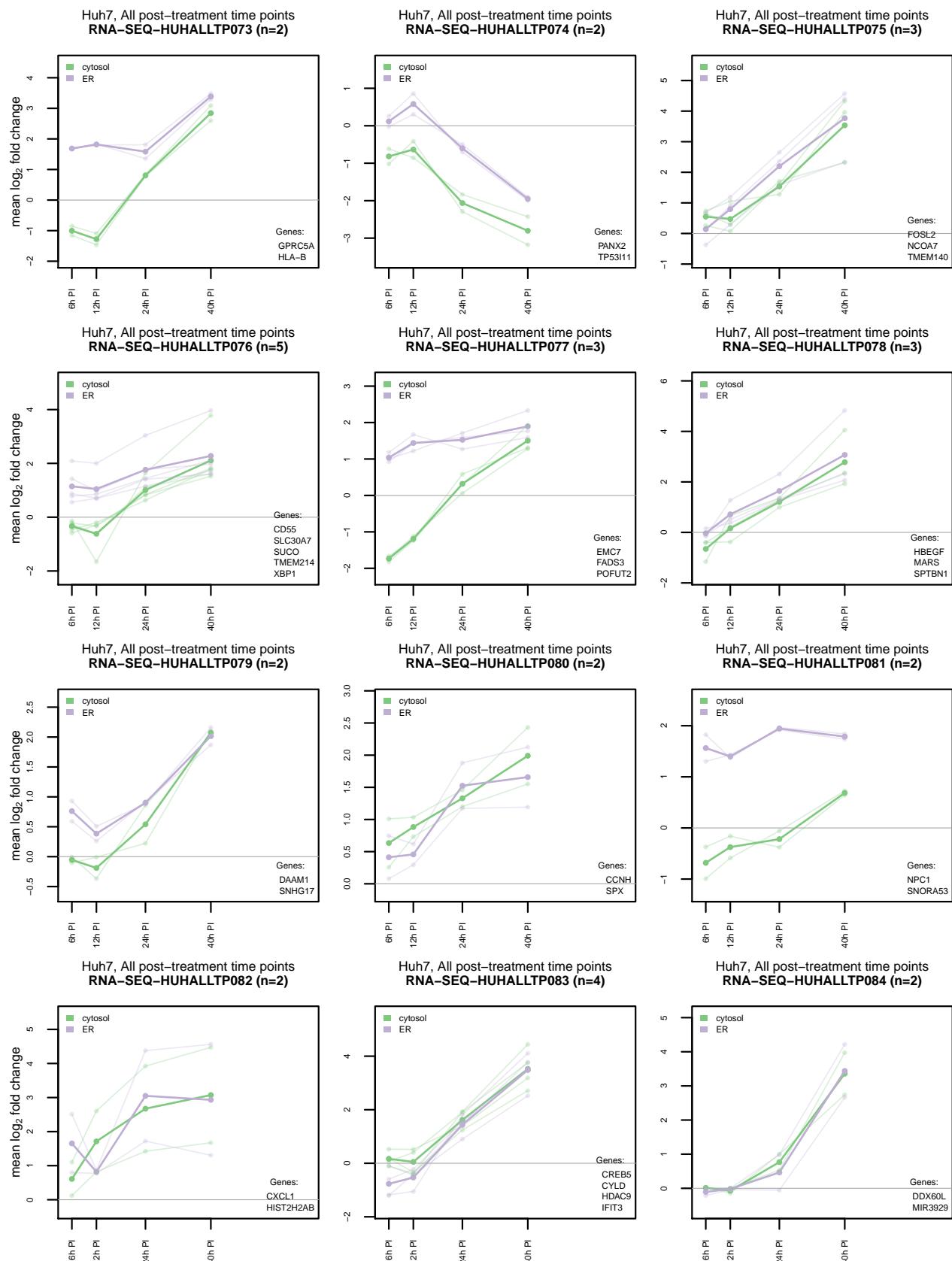


Figure 41: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 7 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

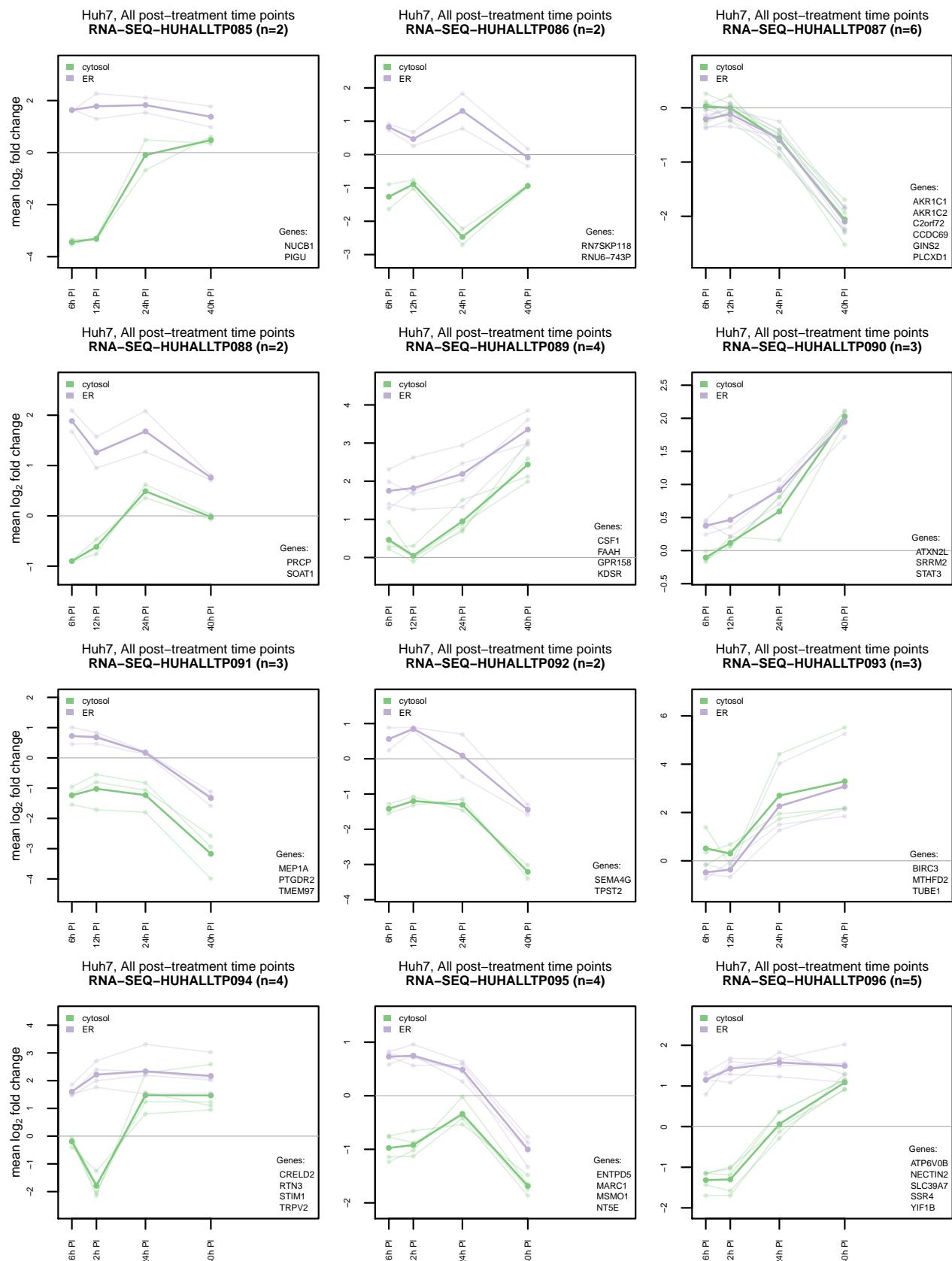


Figure 42: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 8 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

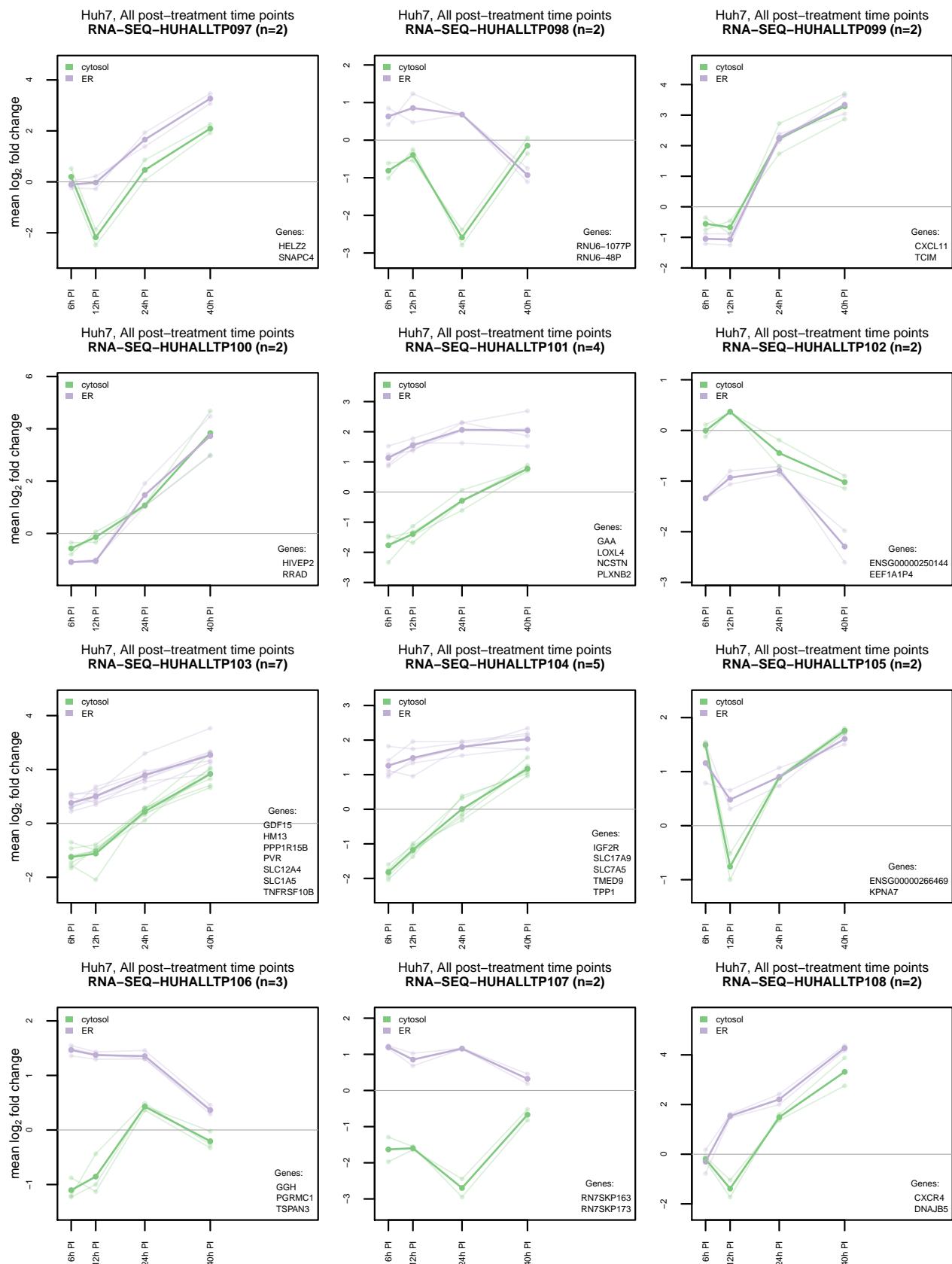


Figure 43: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 9 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

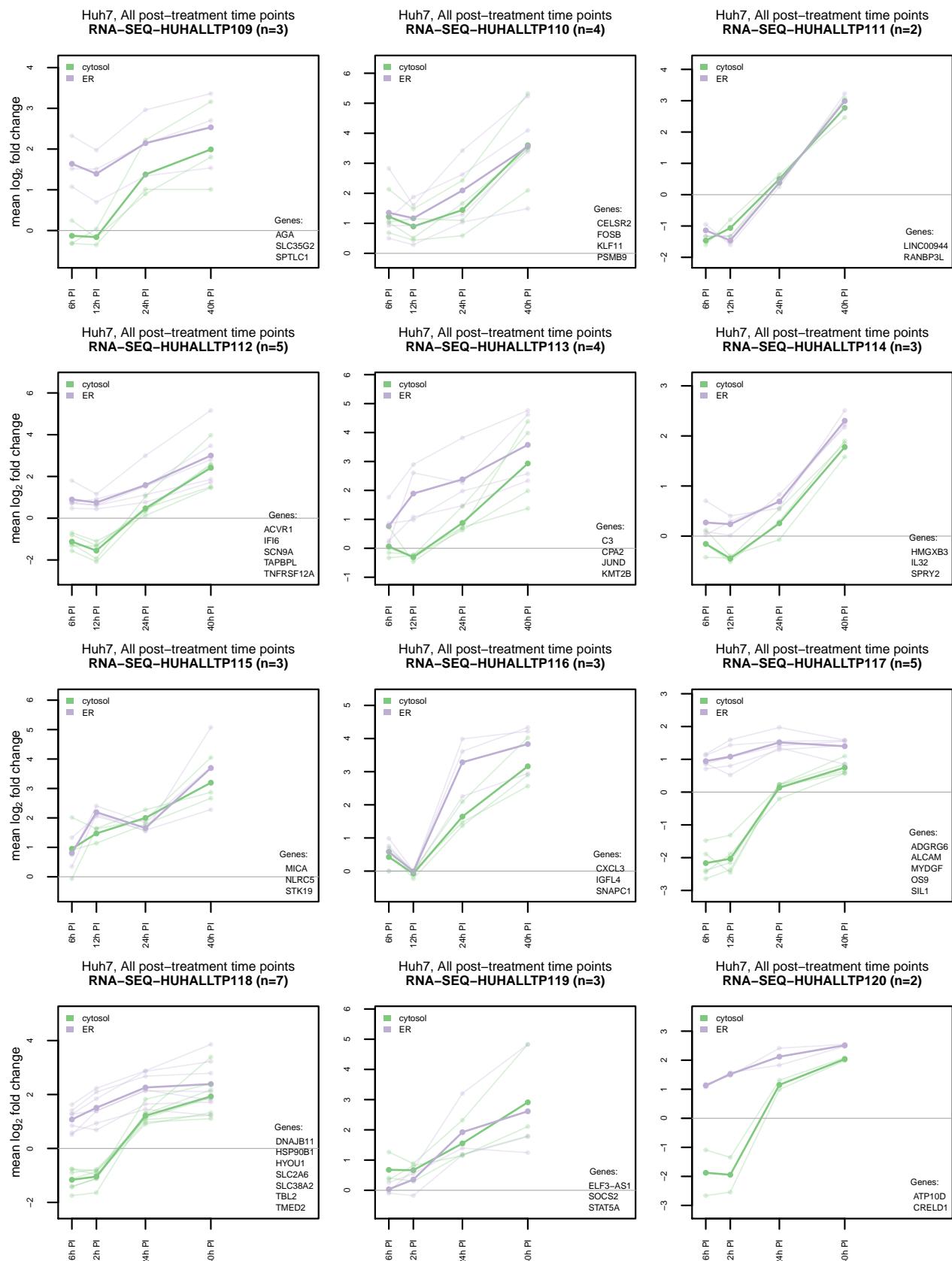


Figure 44: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 10 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

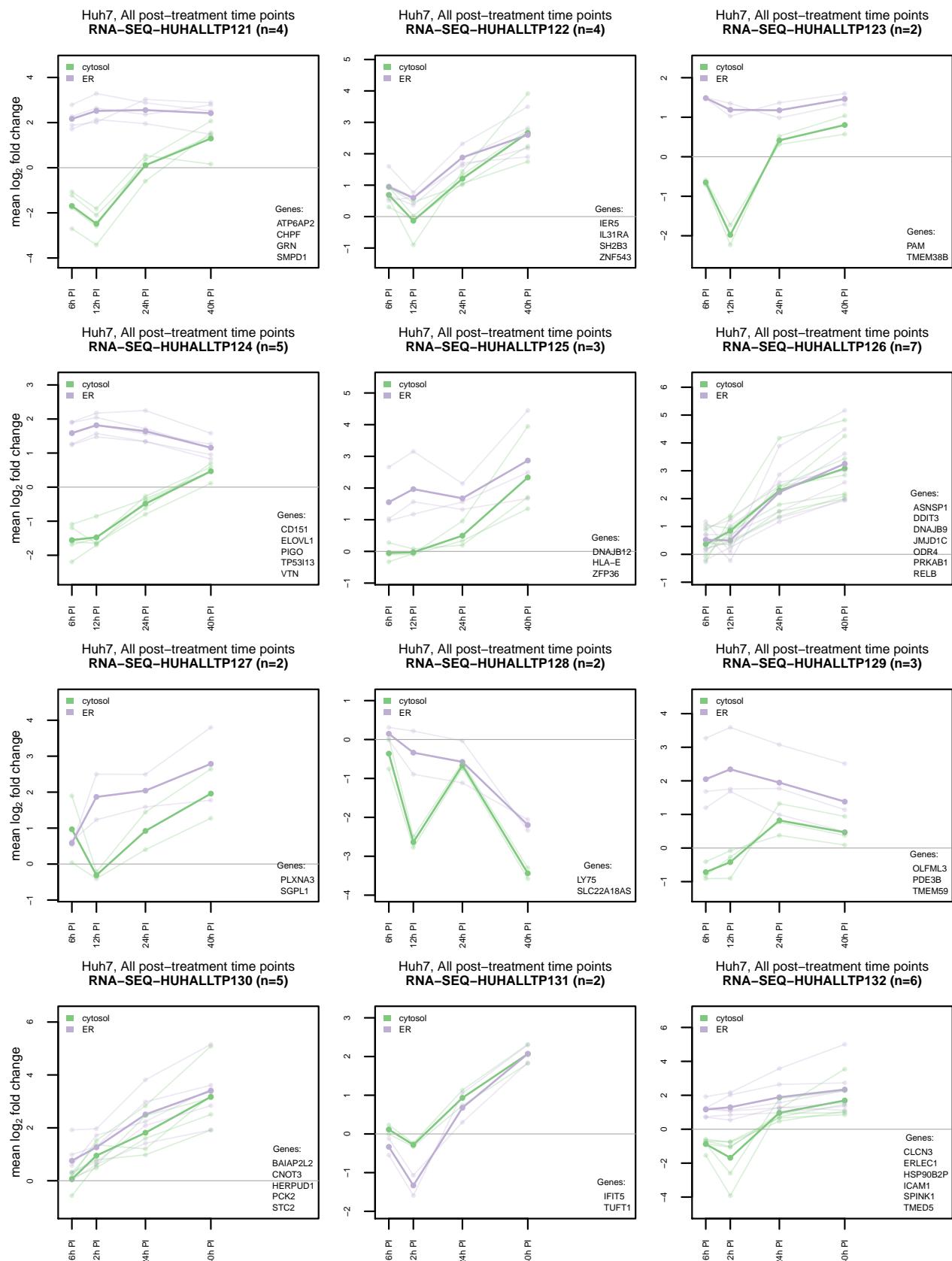


Figure 45: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 11 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

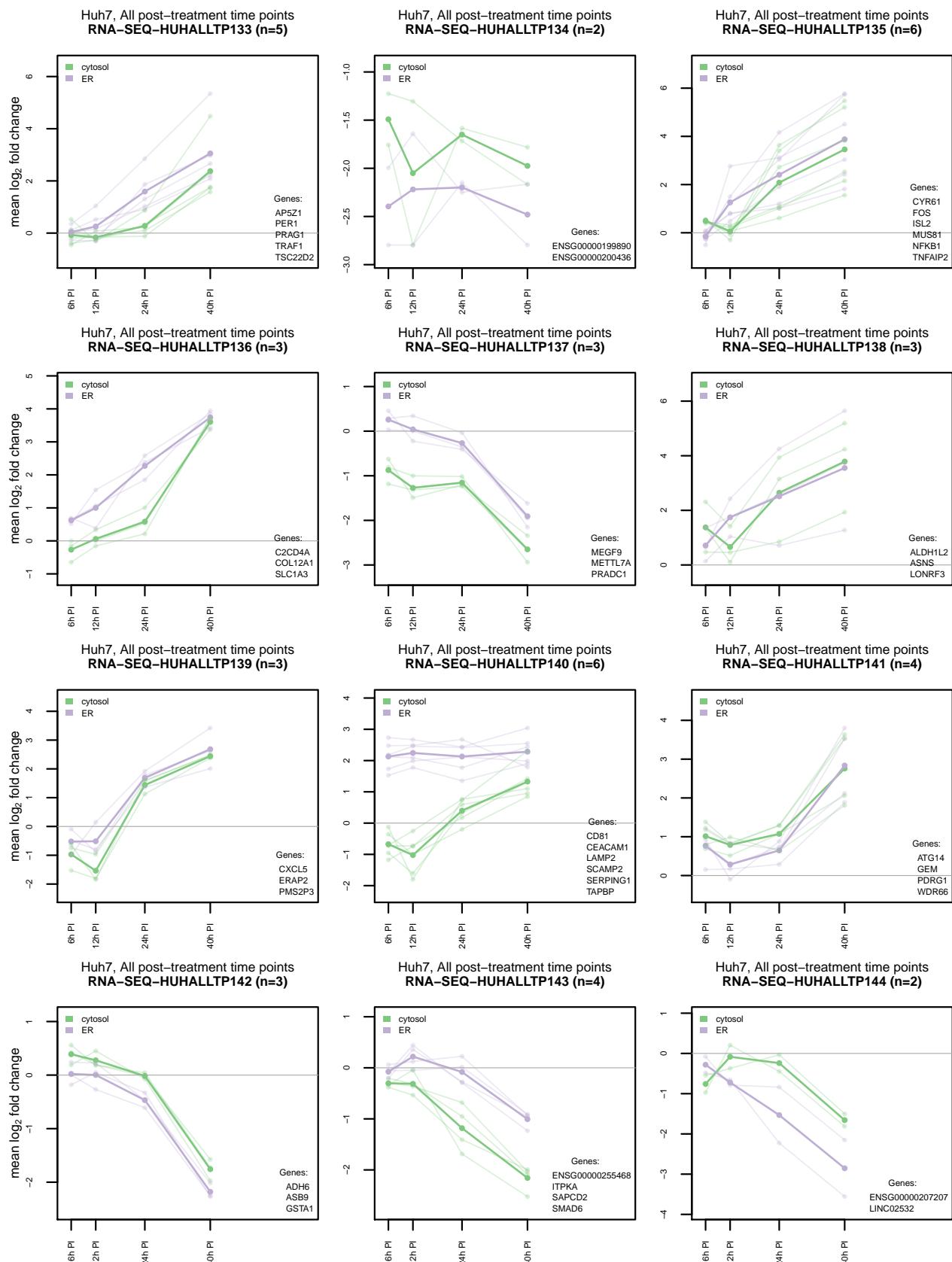


Figure 46: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 12 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

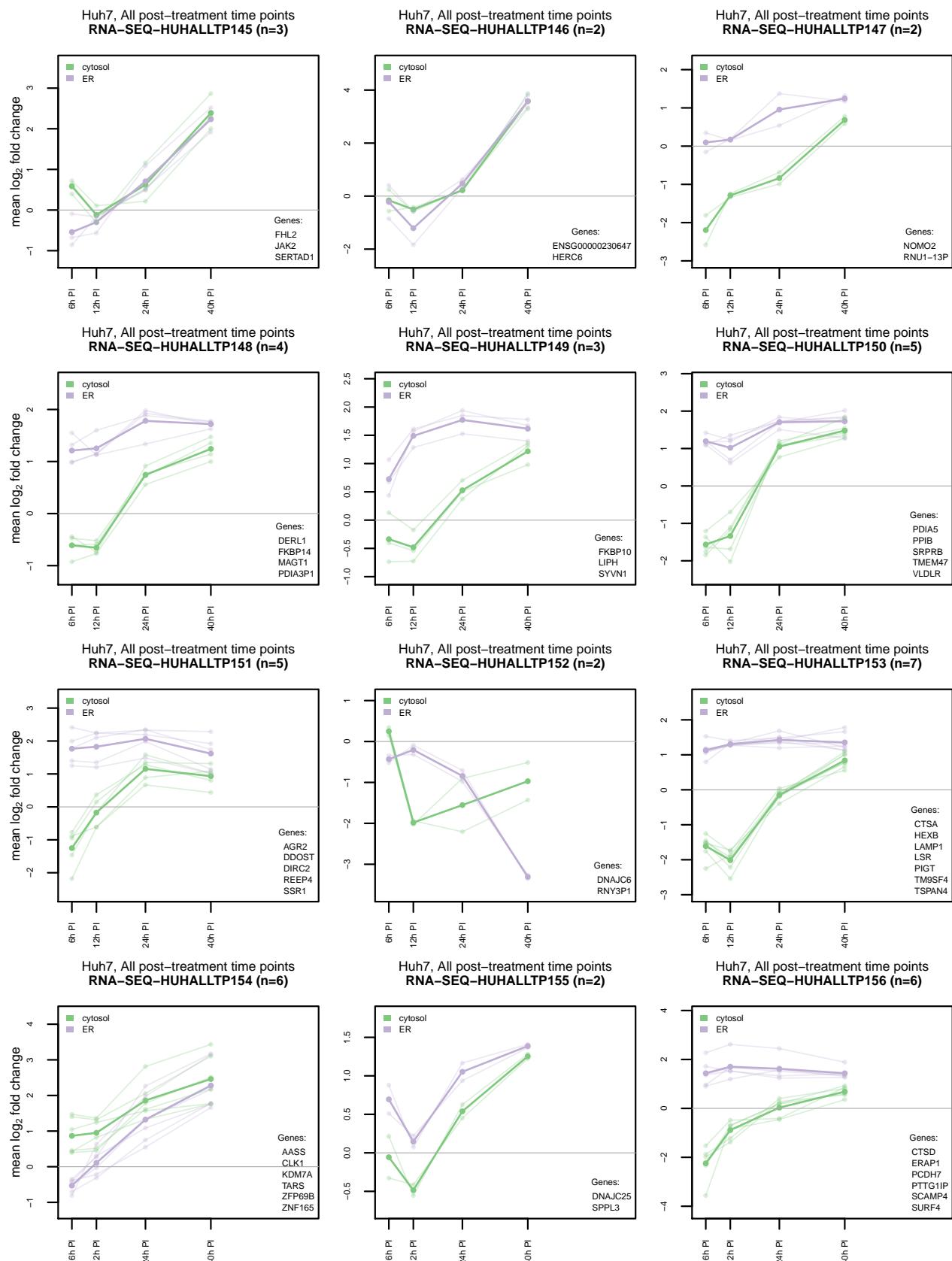


Figure 47: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 13 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

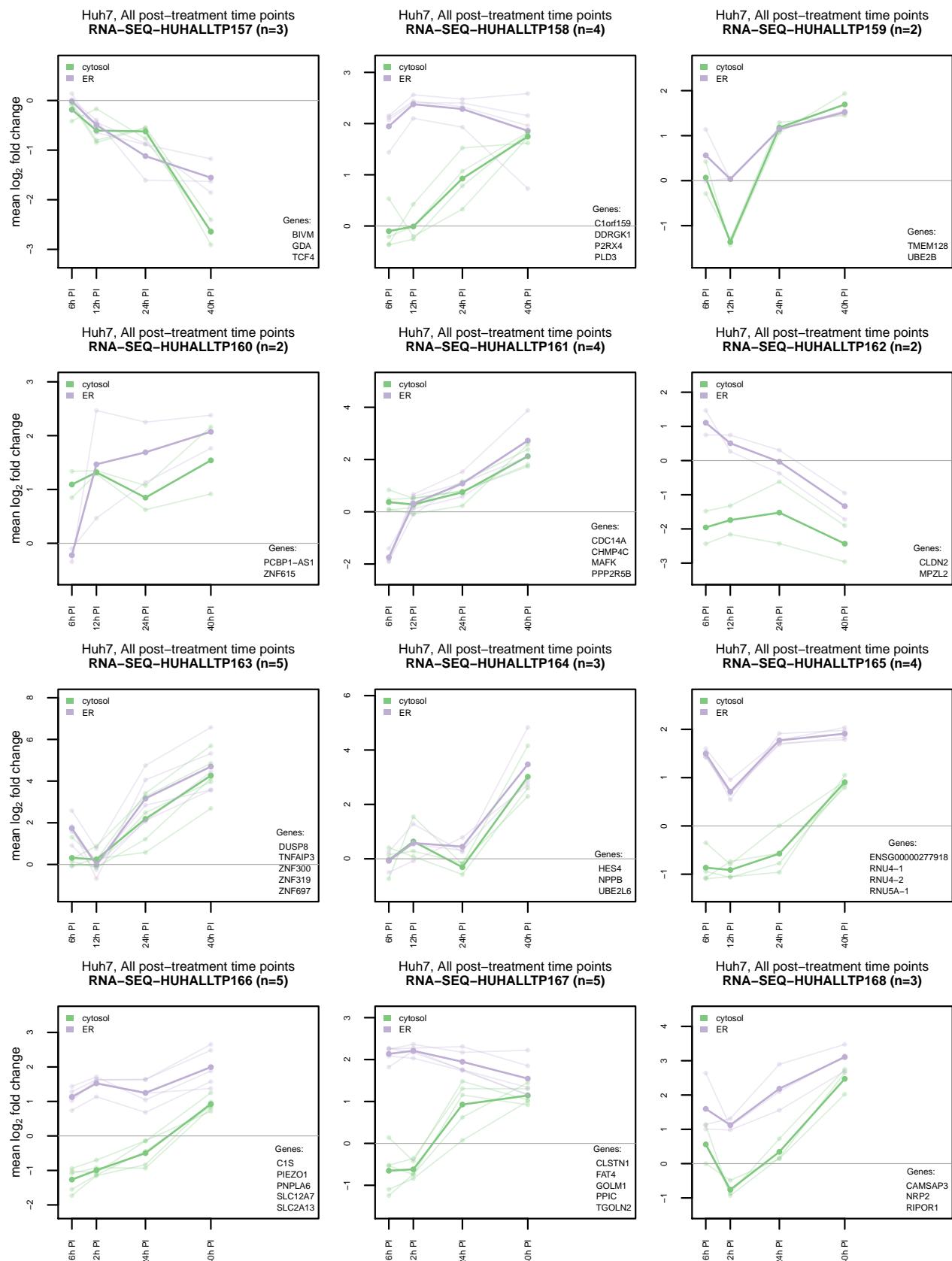


Figure 48: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 14 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

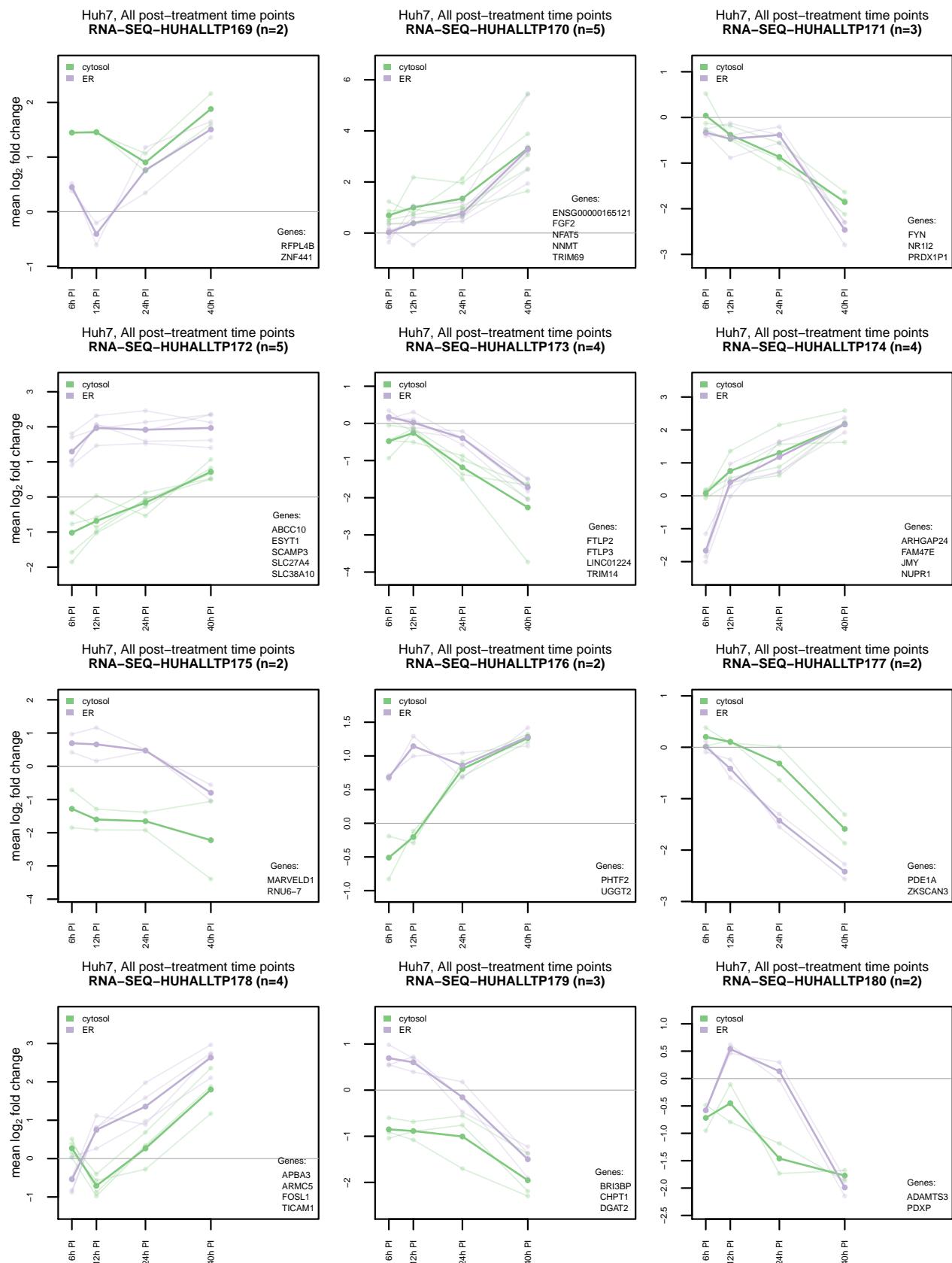


Figure 49: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 15 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

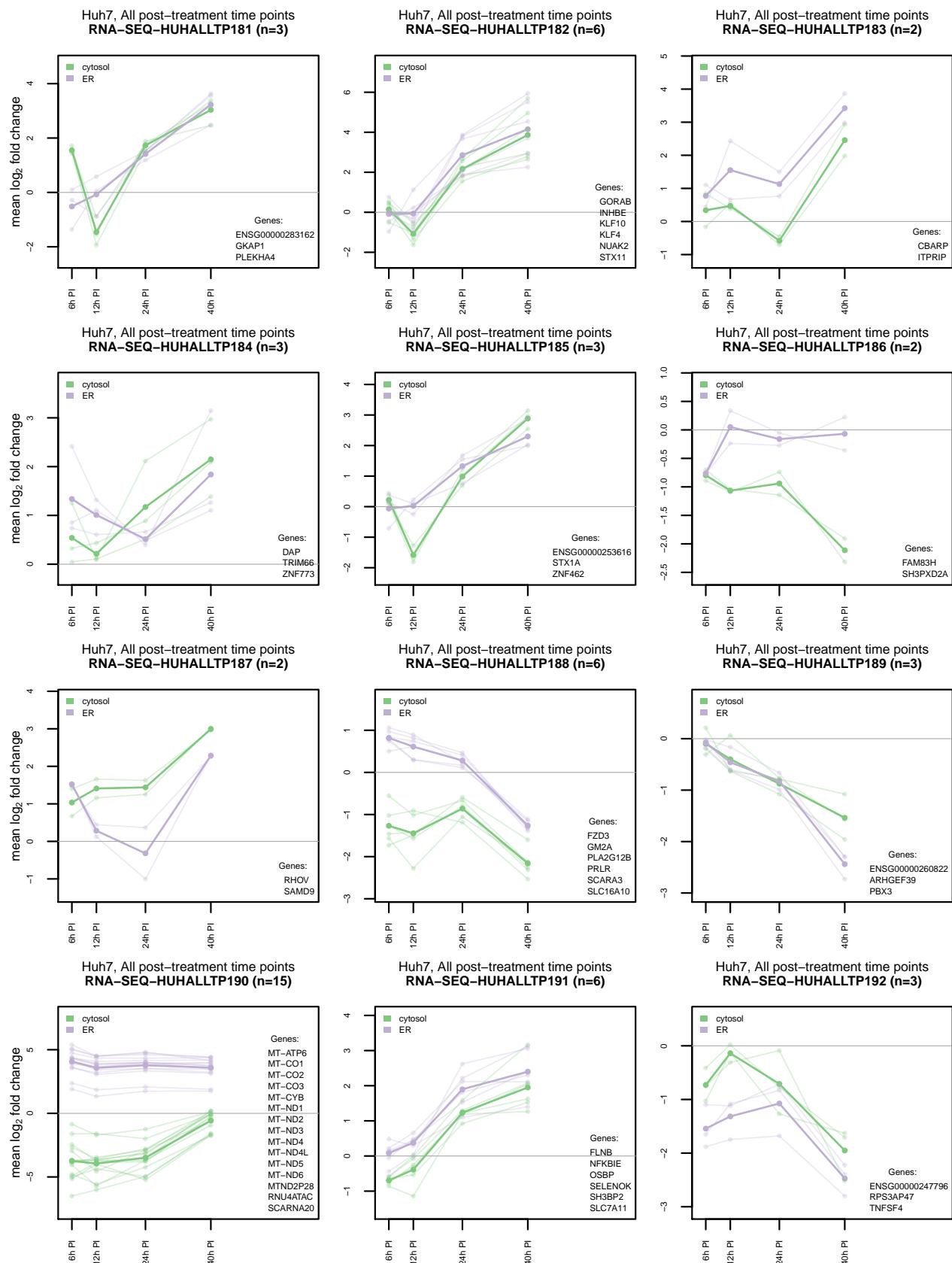


Figure 50: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 16 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

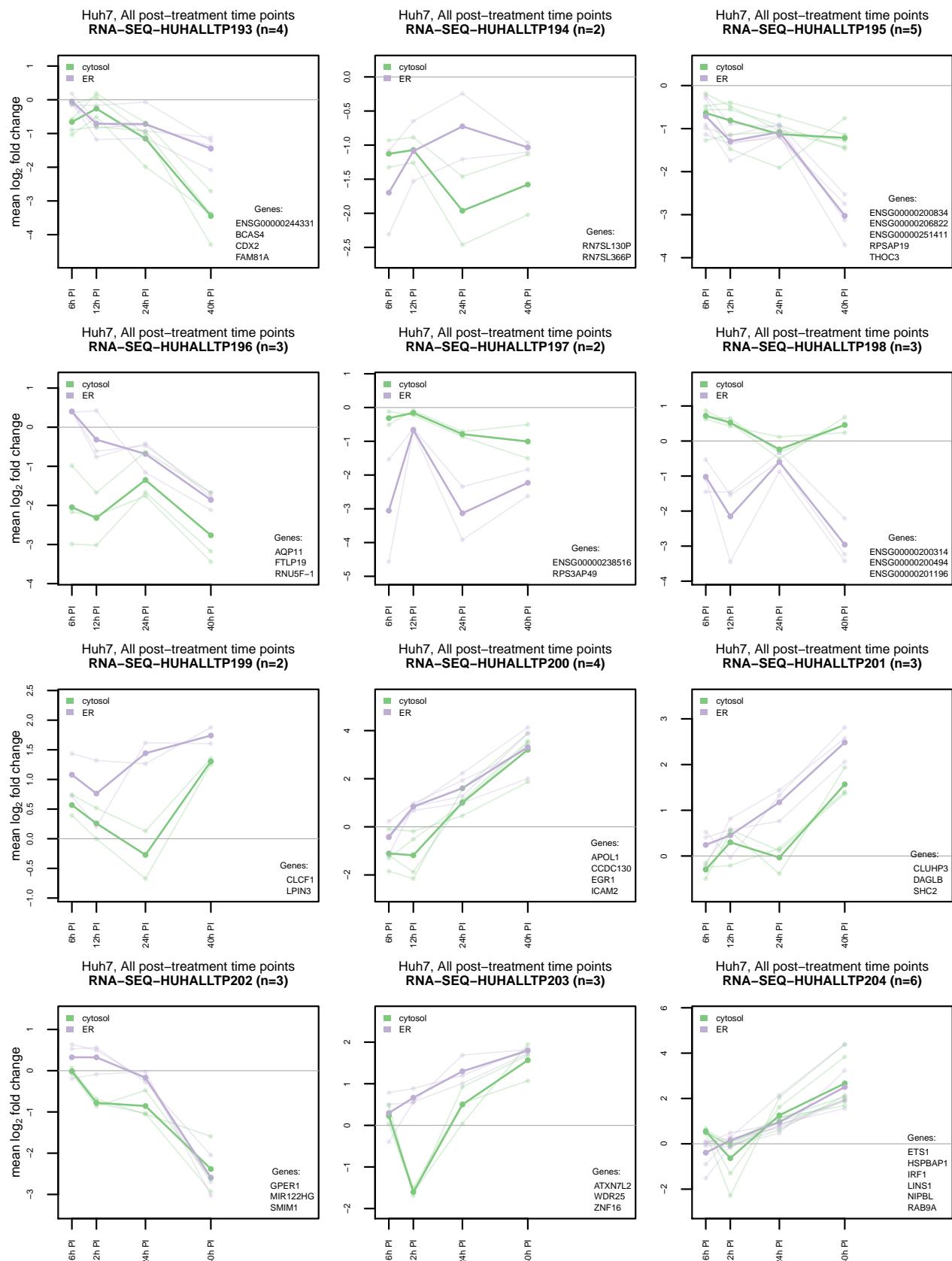


Figure 51: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 17 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

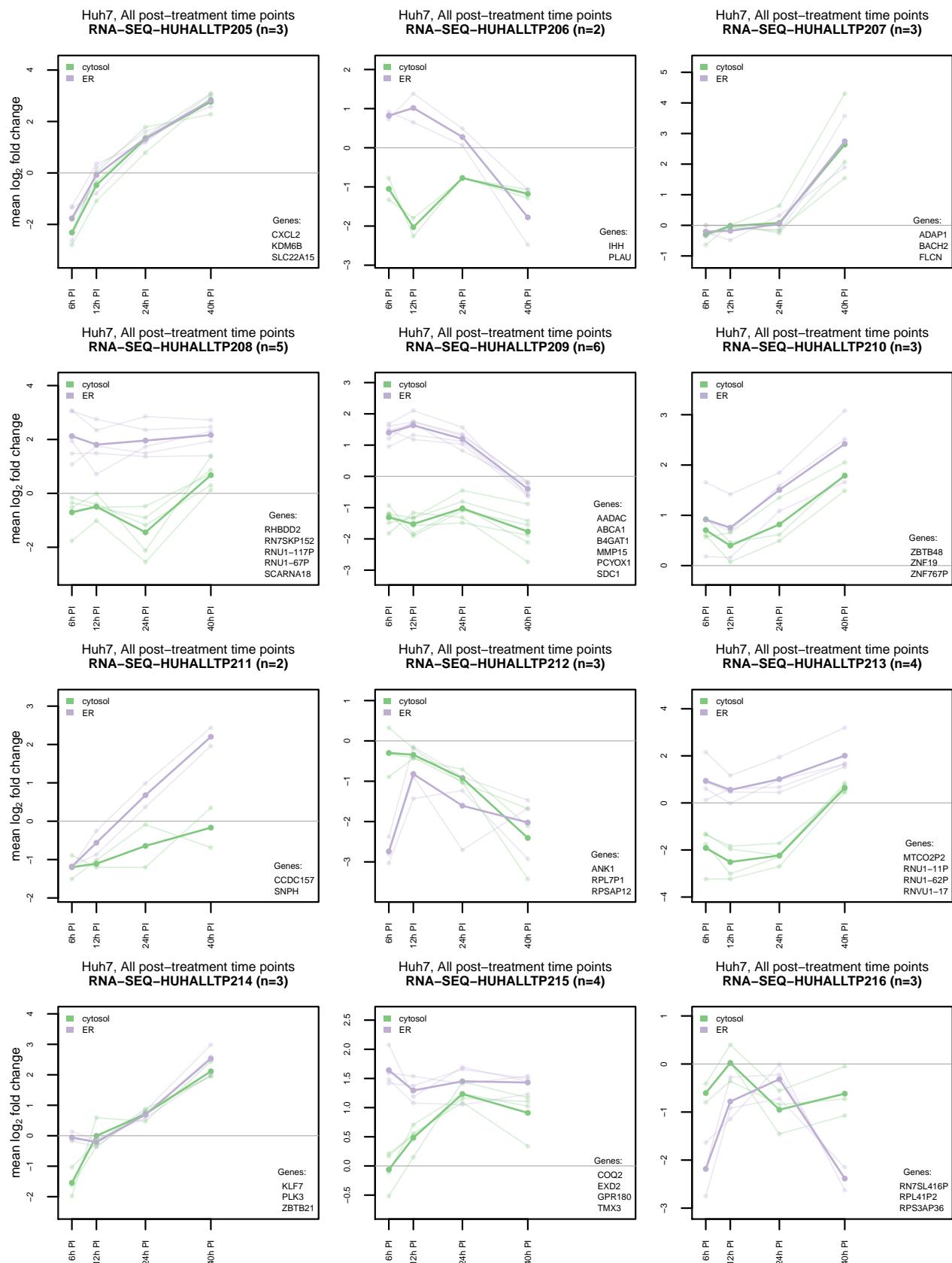


Figure 52: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 18 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

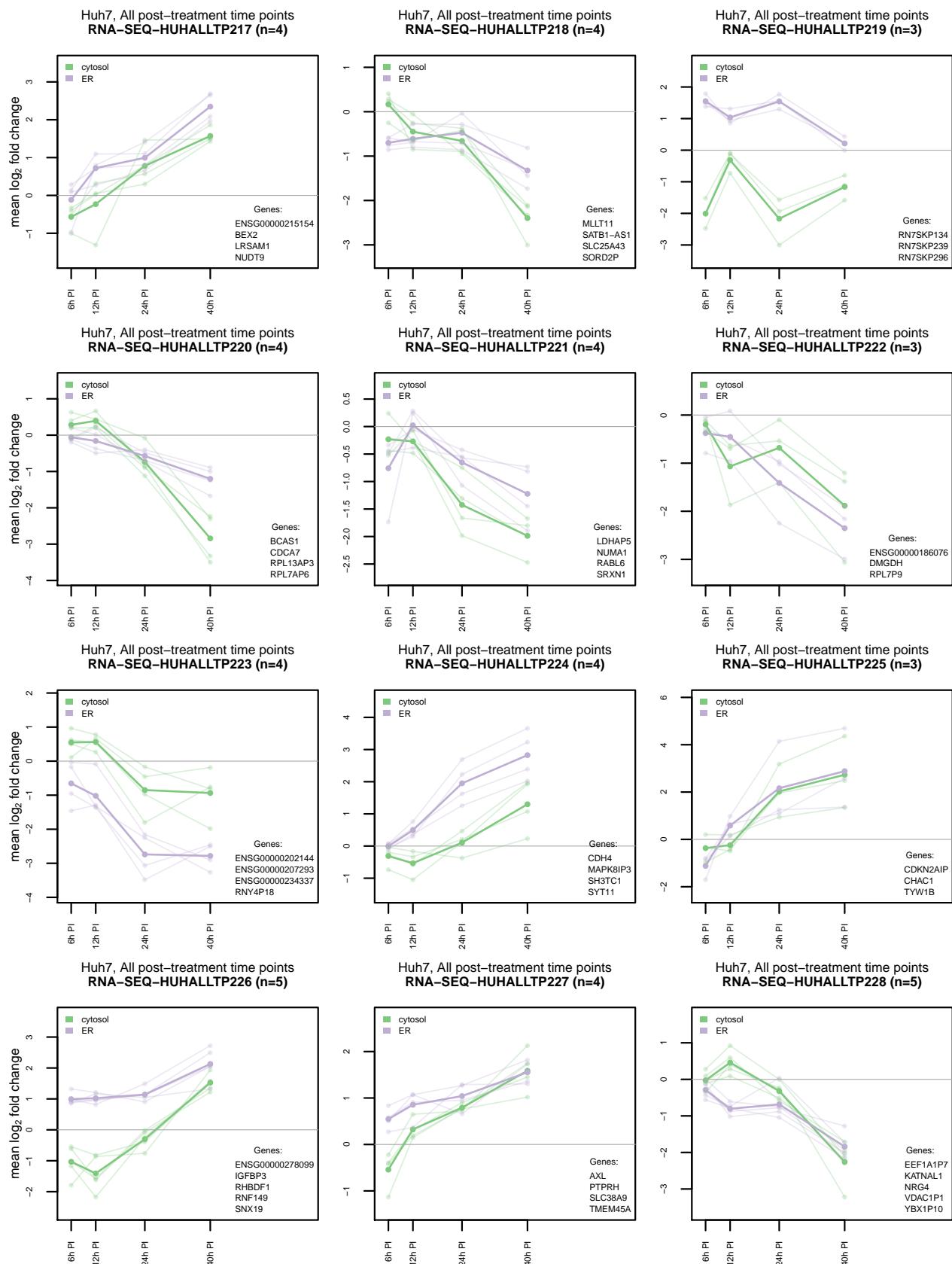


Figure 53: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 19 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

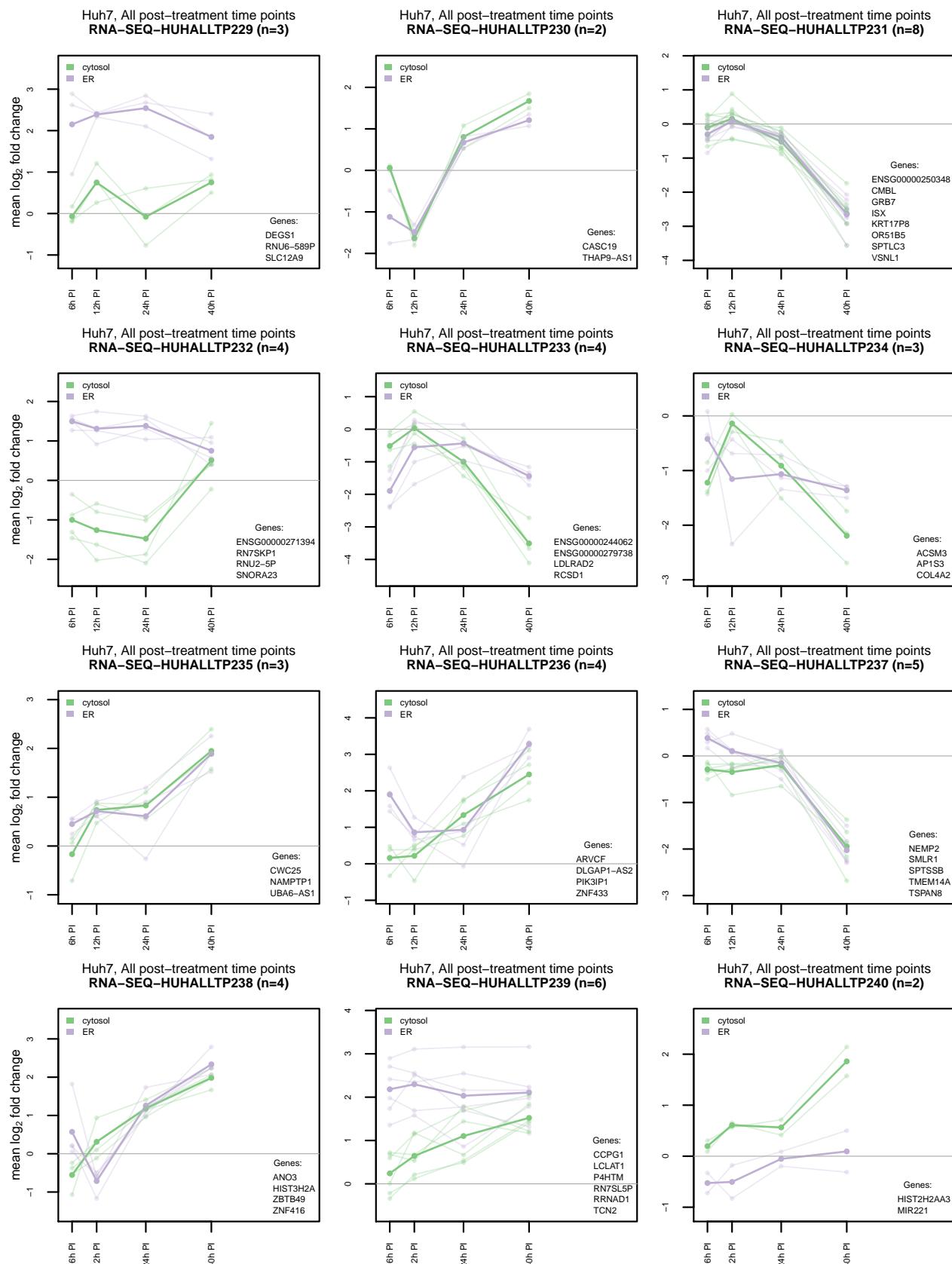


Figure 54: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 20 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

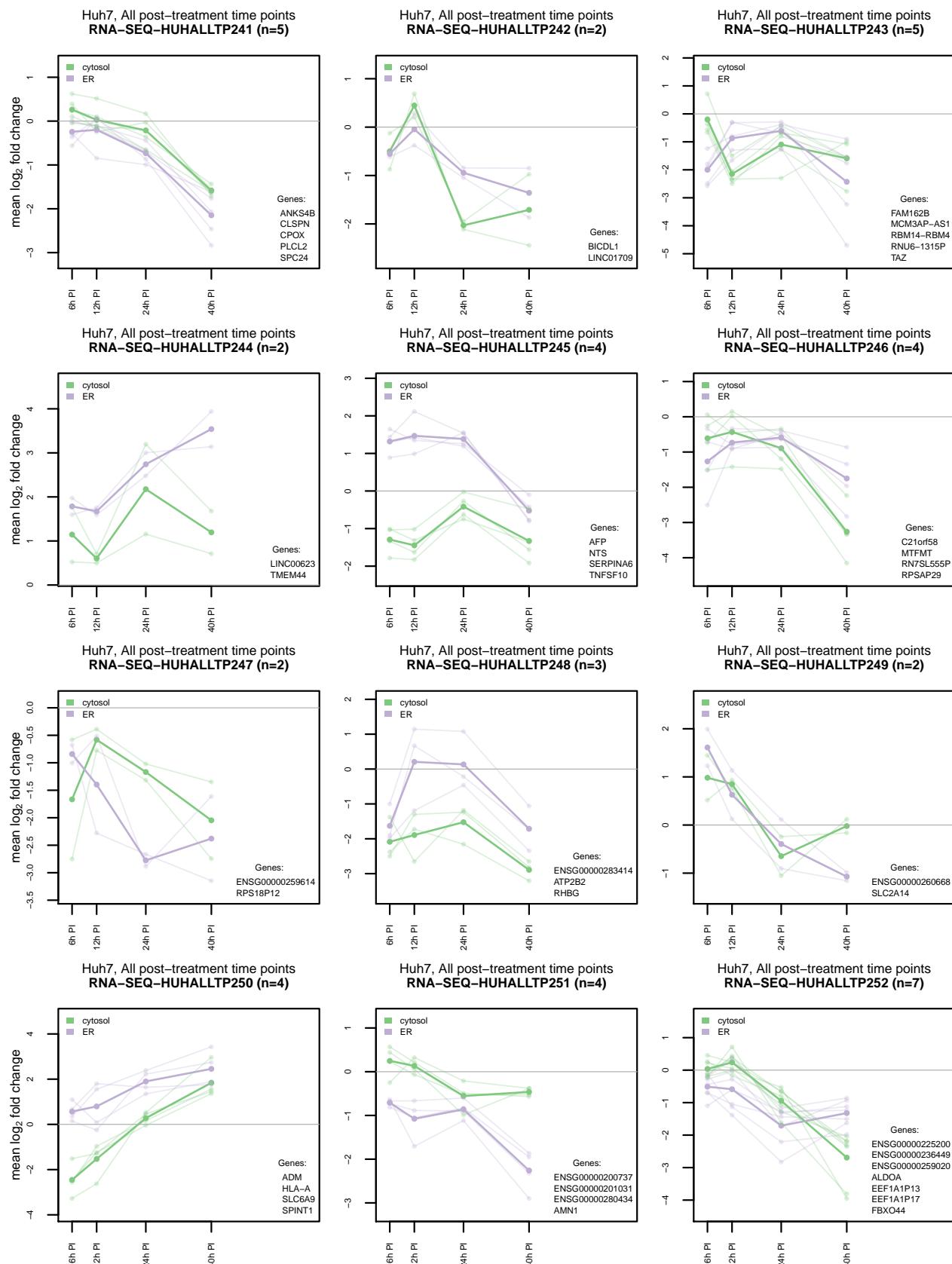


Figure 55: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 21 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

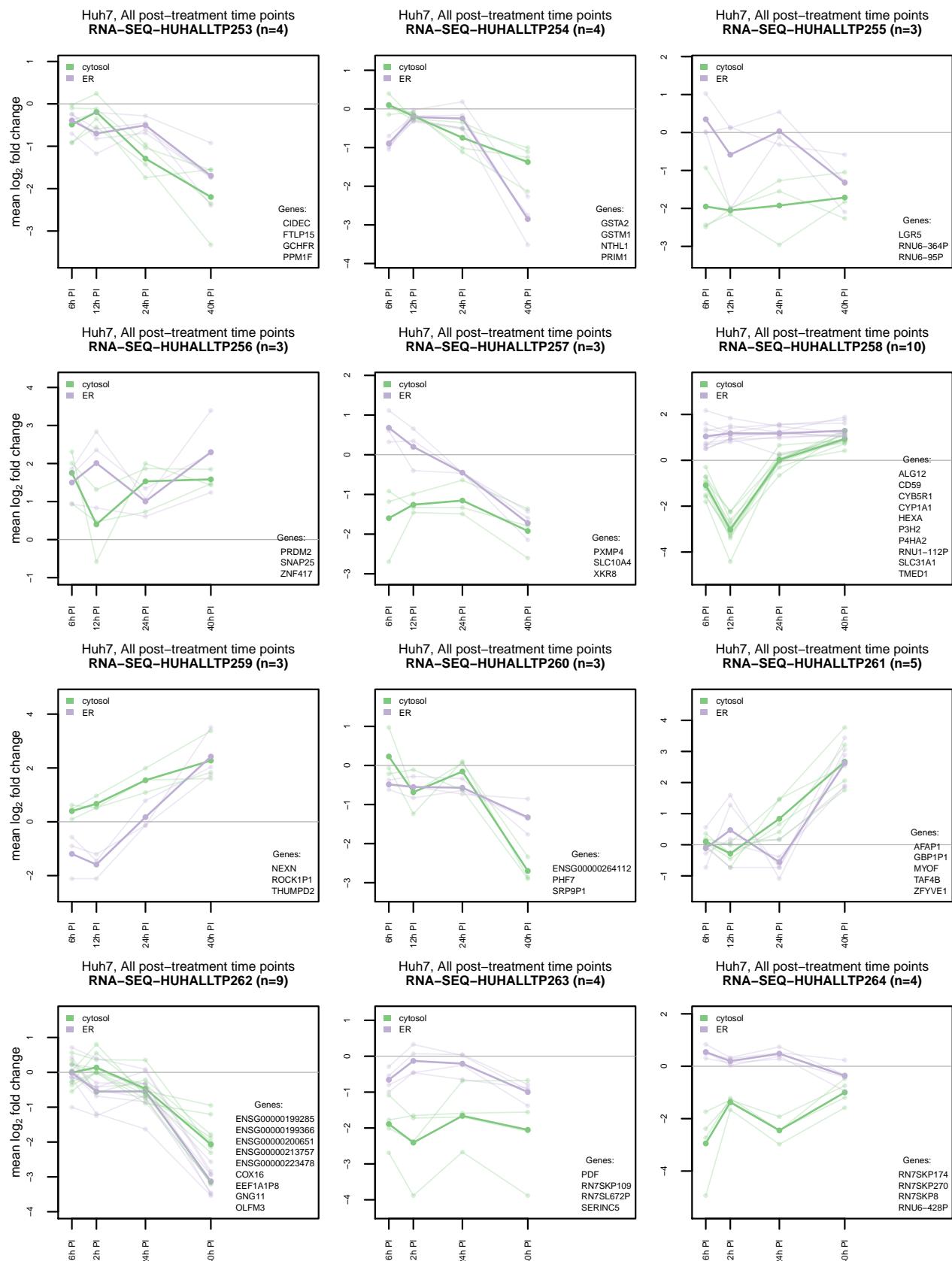


Figure 56: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 22 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

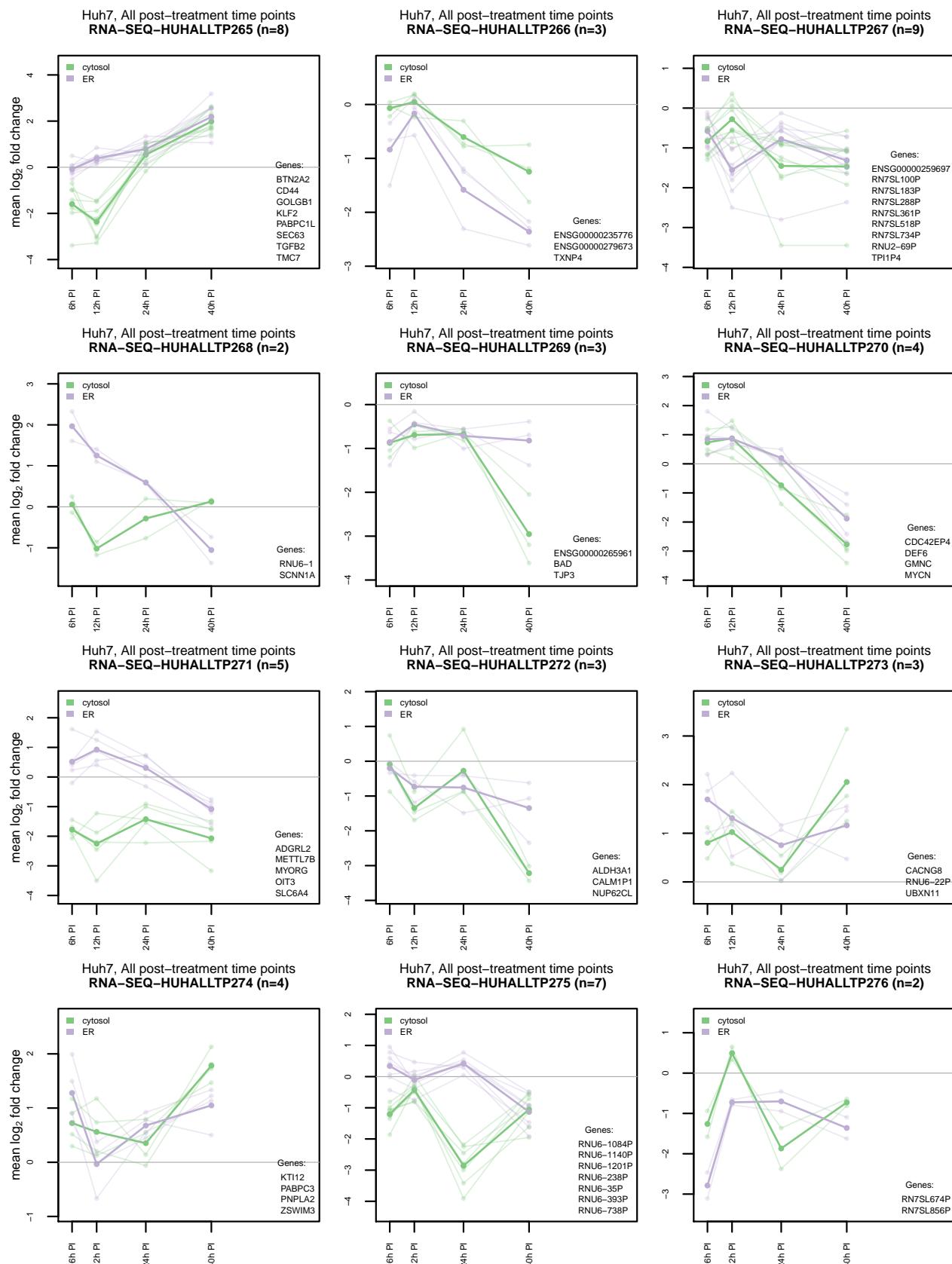


Figure 57: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 23 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

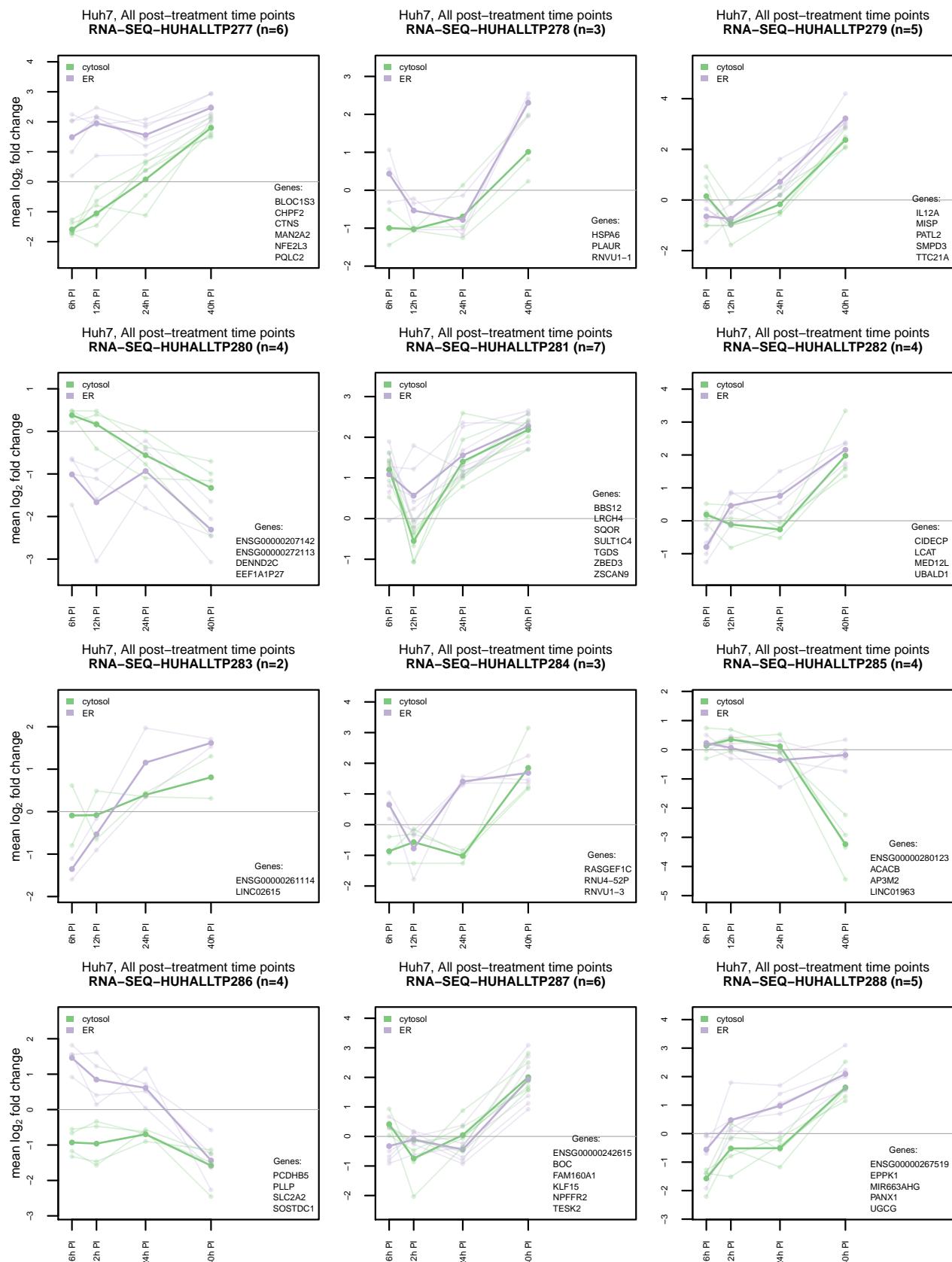


Figure 58: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 24 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

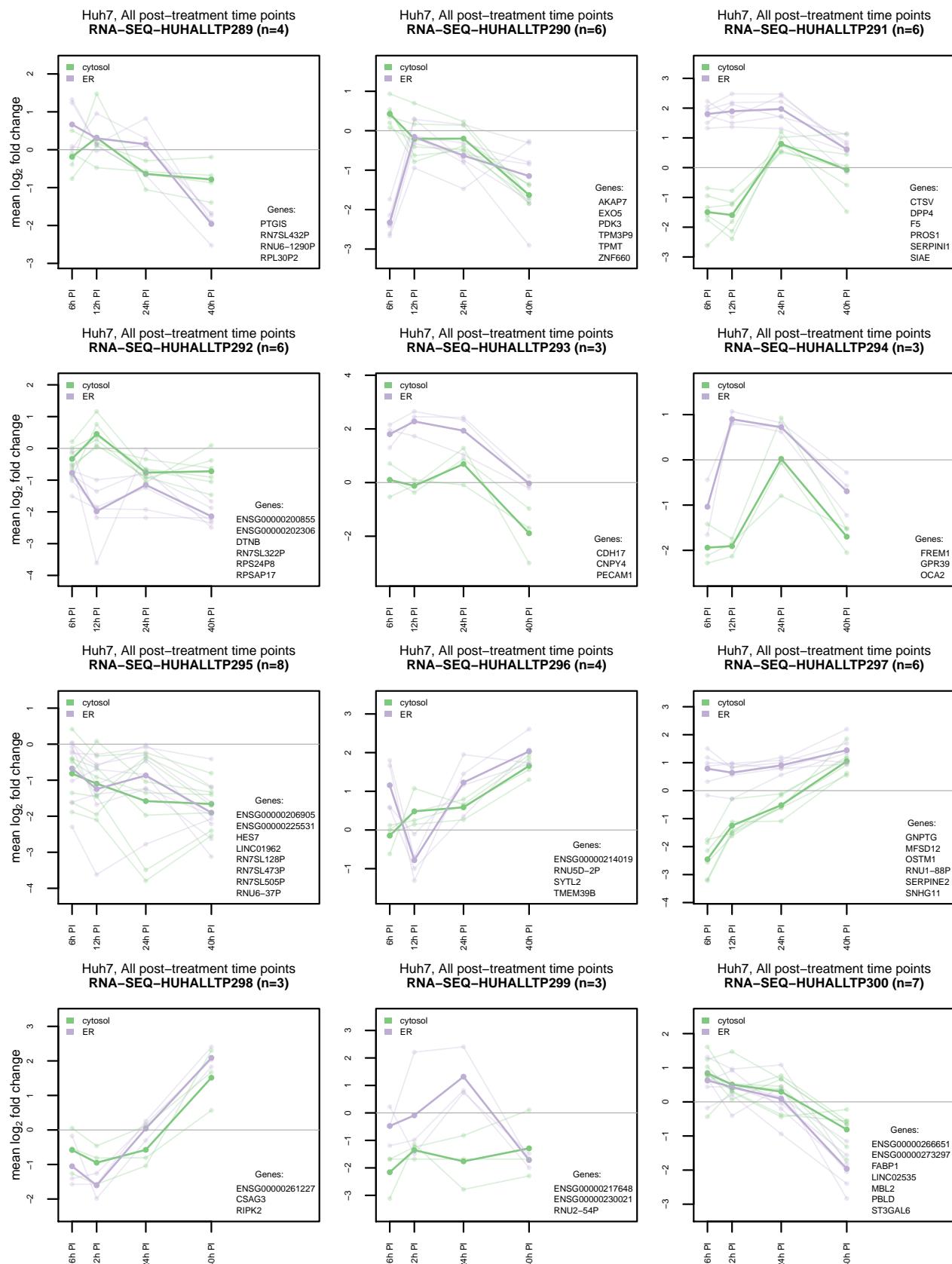


Figure 59: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 25 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

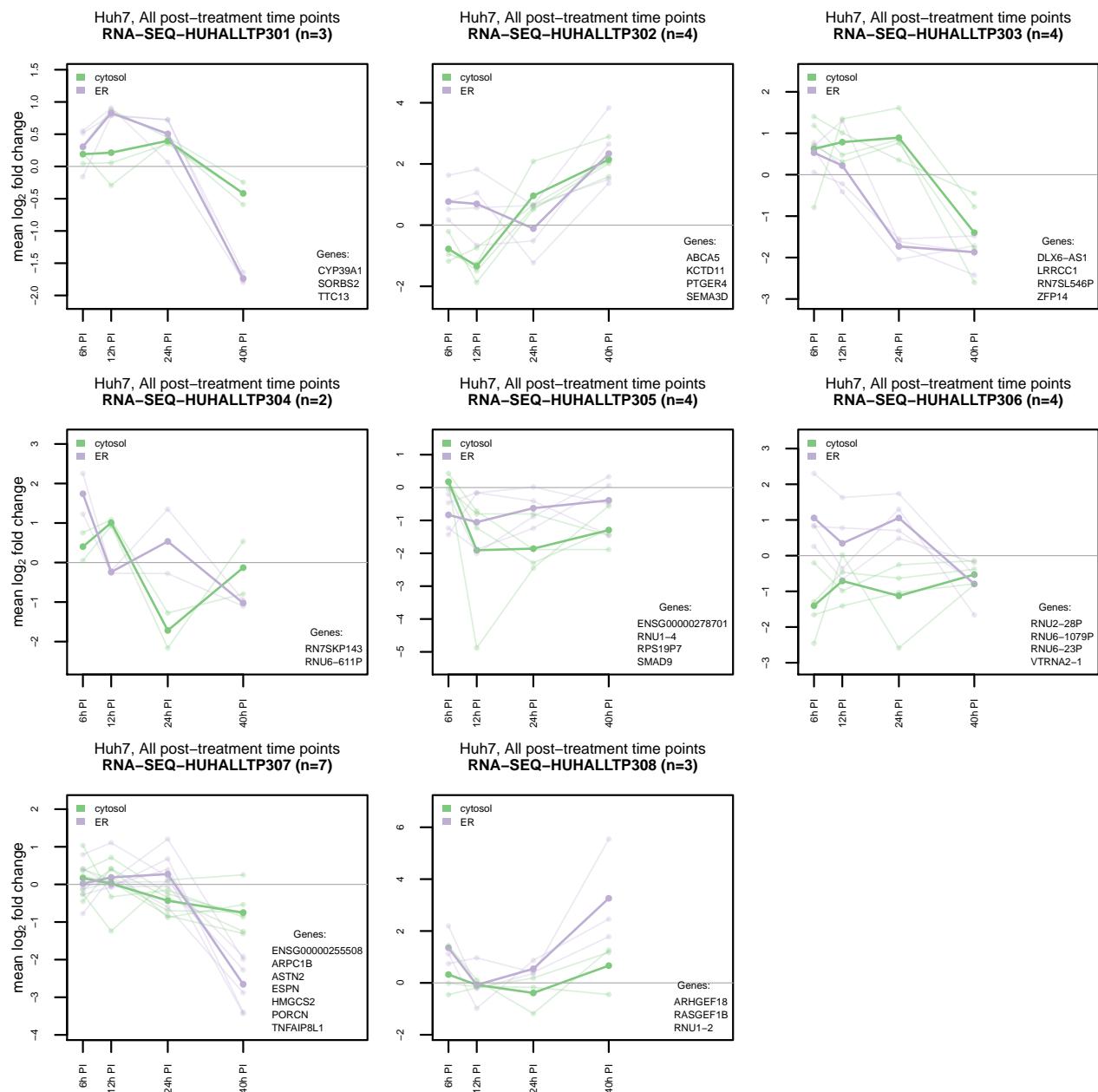


Figure 60: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 26 of 26 (RNA-Seq, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

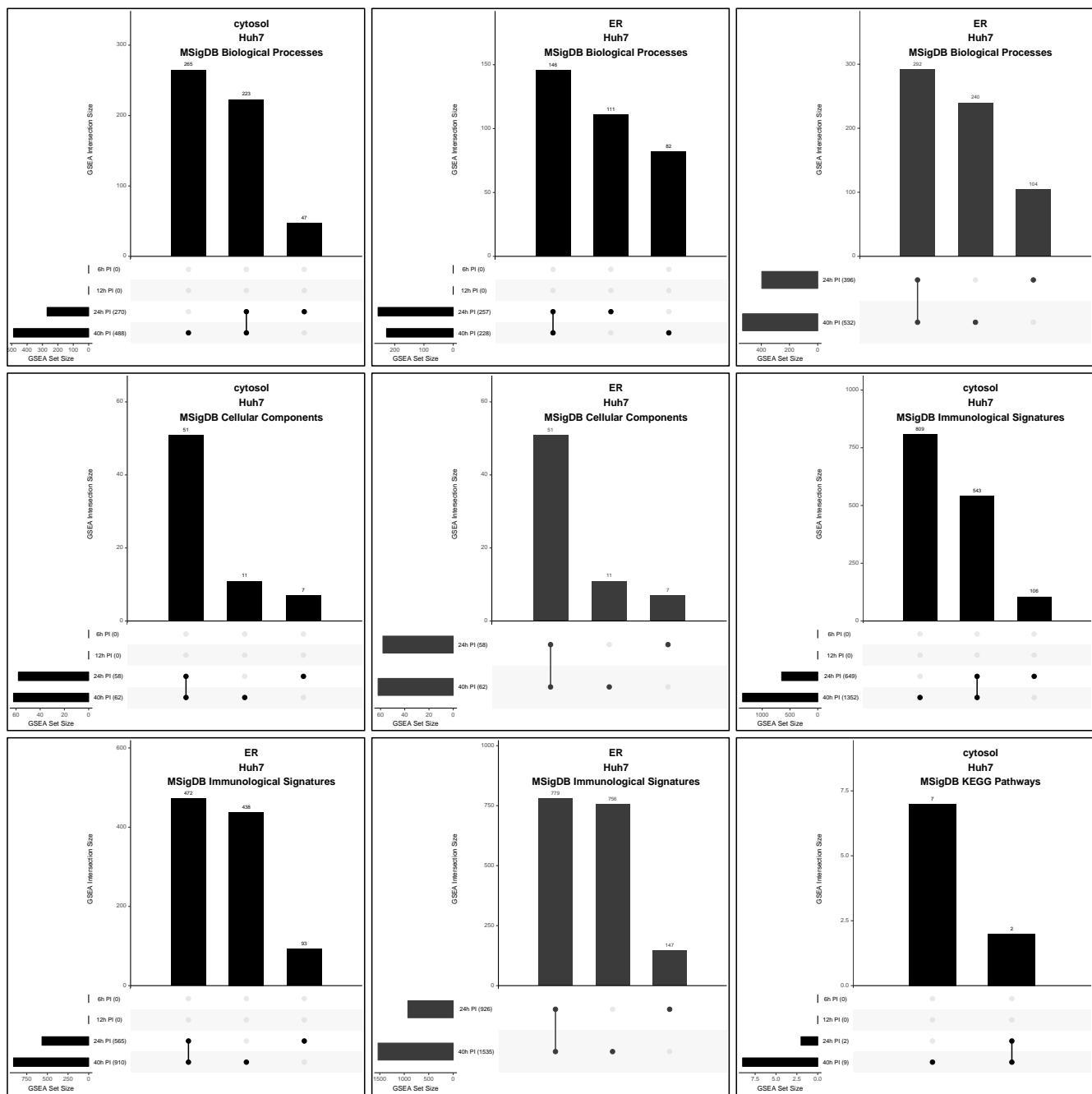


Figure 61: UpSet plots of enriched gene sets between post-treatment time points 1 of 2 (RNA-Seq, Huh7, cytosol)..

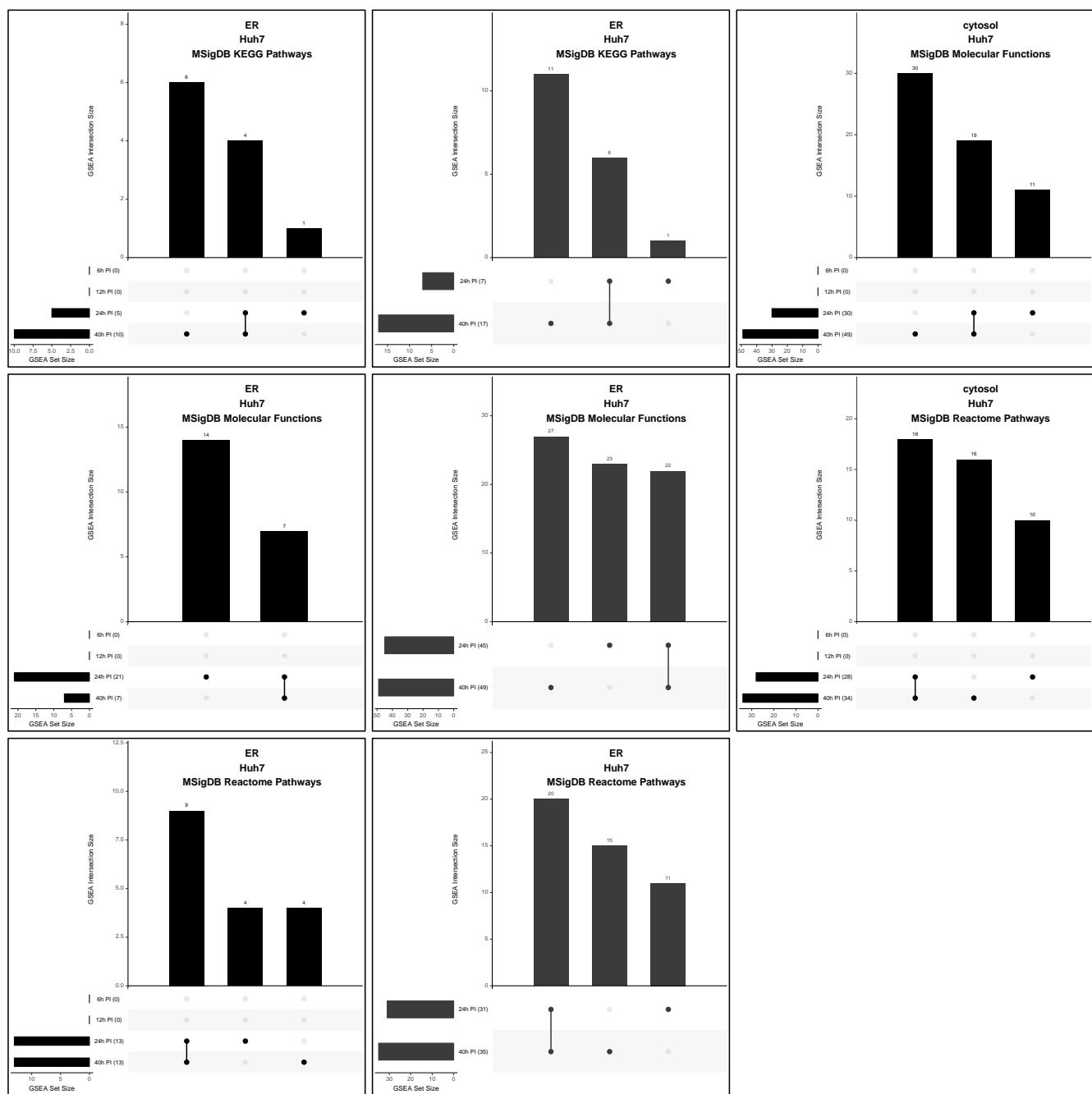


Figure 62: UpSet plots of enriched gene sets between post-treatment time points 2 of 2 (RNA-Seq, Huh7, ER)..

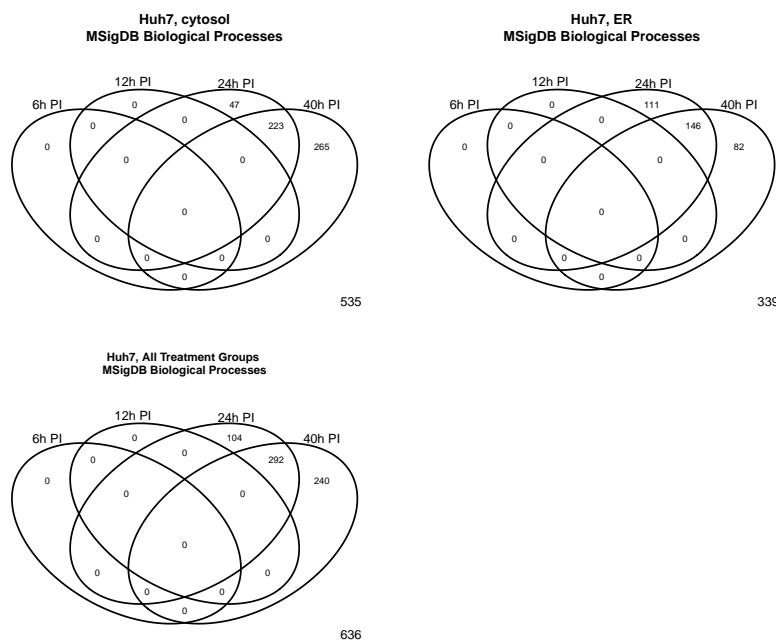


Figure 63: Venn diagrams of enriched MSigDB Biological Processes between post-treatment time points (RNA-Seq, Huh7).

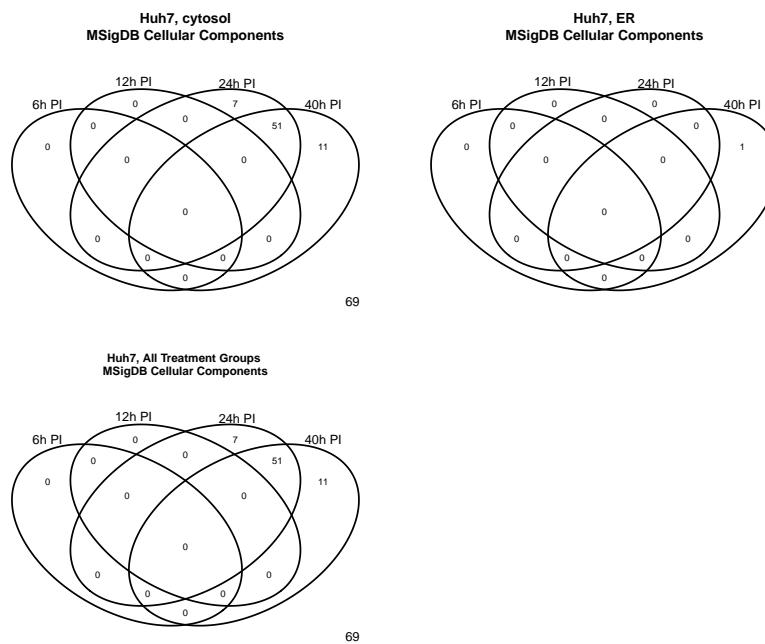


Figure 64: Venn diagrams of enriched MSigDB Cellular Components between post-treatment time points (RNA-Seq, Huh7).

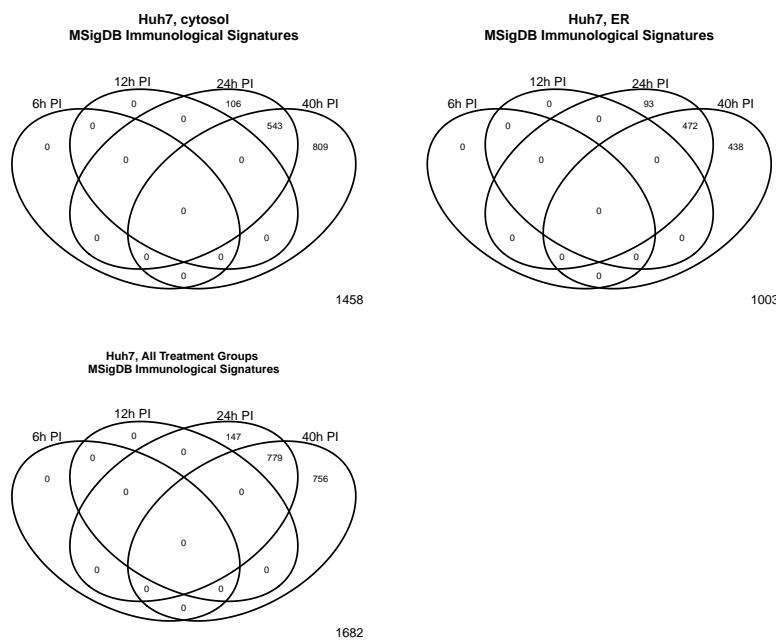


Figure 65: Venn diagrams of enriched MSigDB Immunological Signatures between post-treatment time points (RNA-Seq, Huh7).

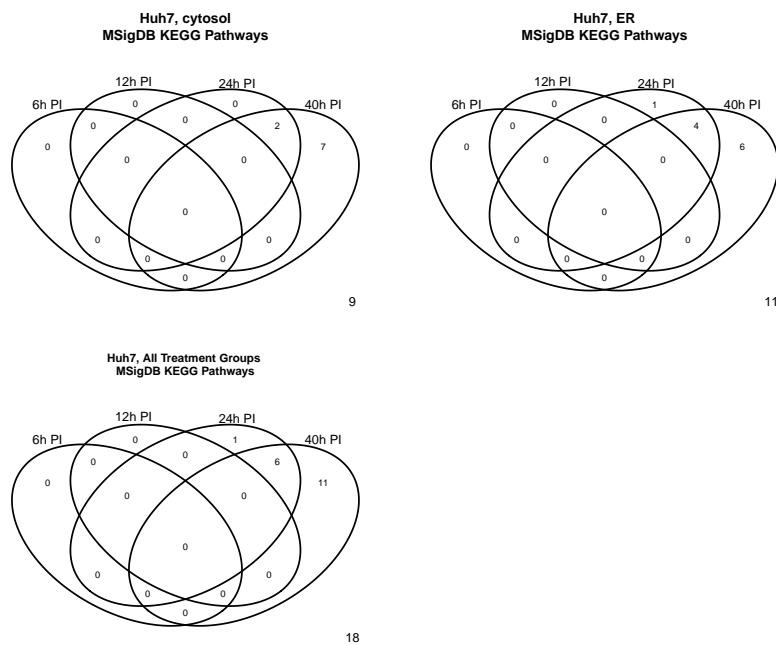


Figure 66: Venn diagrams of enriched MSigDB KEGG Pathways between post-treatment time points (RNA-Seq, Huh7).

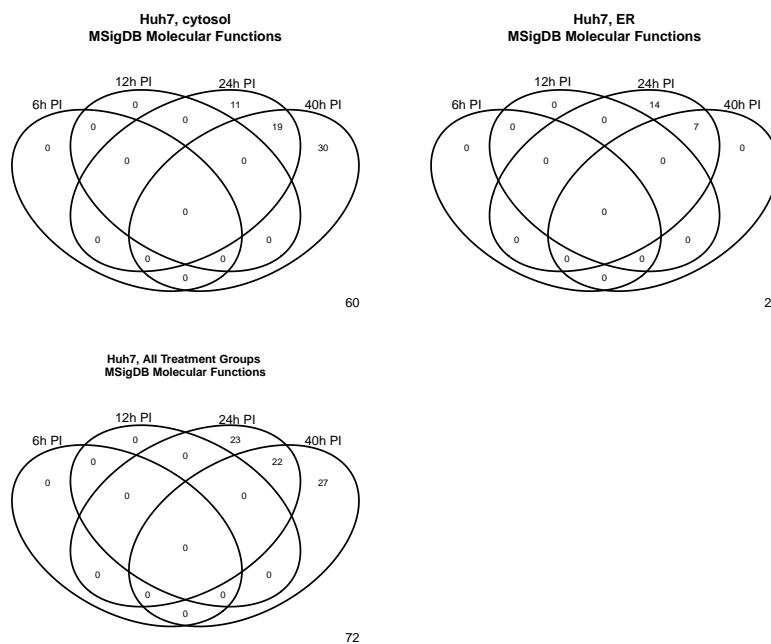


Figure 67: Venn diagrams of enriched MSigDB Molecular Functions between post-treatment time points (RNA-Seq, Huh7).

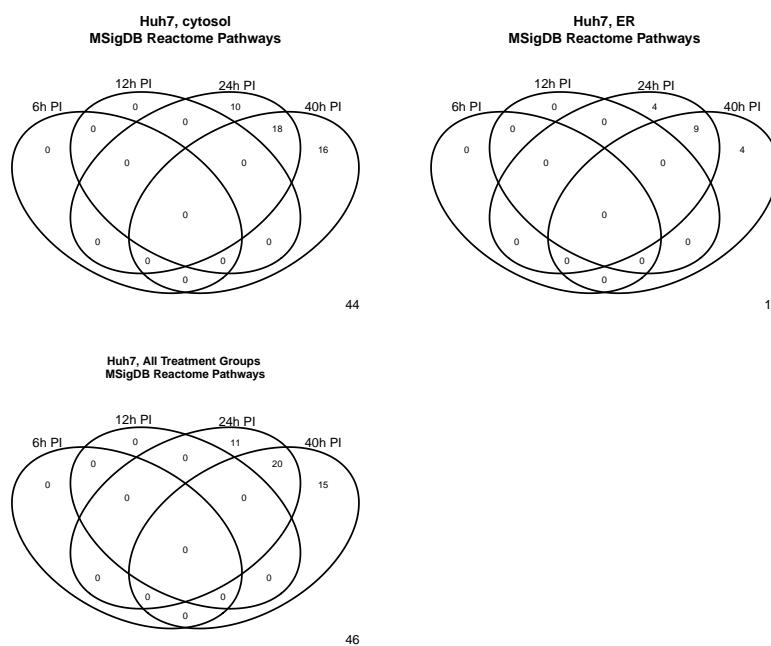


Figure 68: Venn diagrams of enriched MSigDB Reactome Pathways between post-treatment time points (RNA-Seq, Huh7).

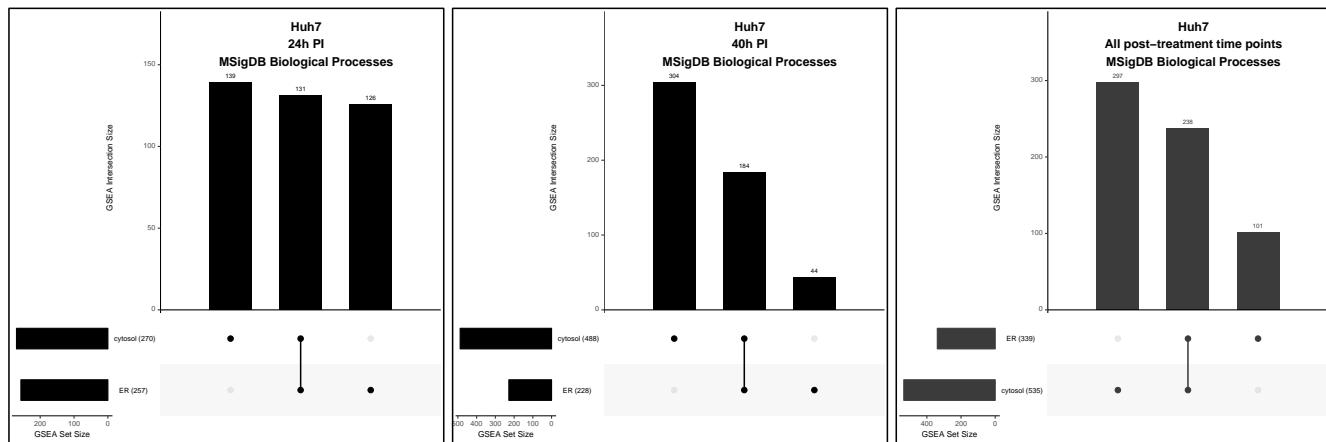


Figure 69: UpSet plots of enriched gene sets between treatment groups (RNA-Seq, Huh7, MSigDB Biological Processes)..

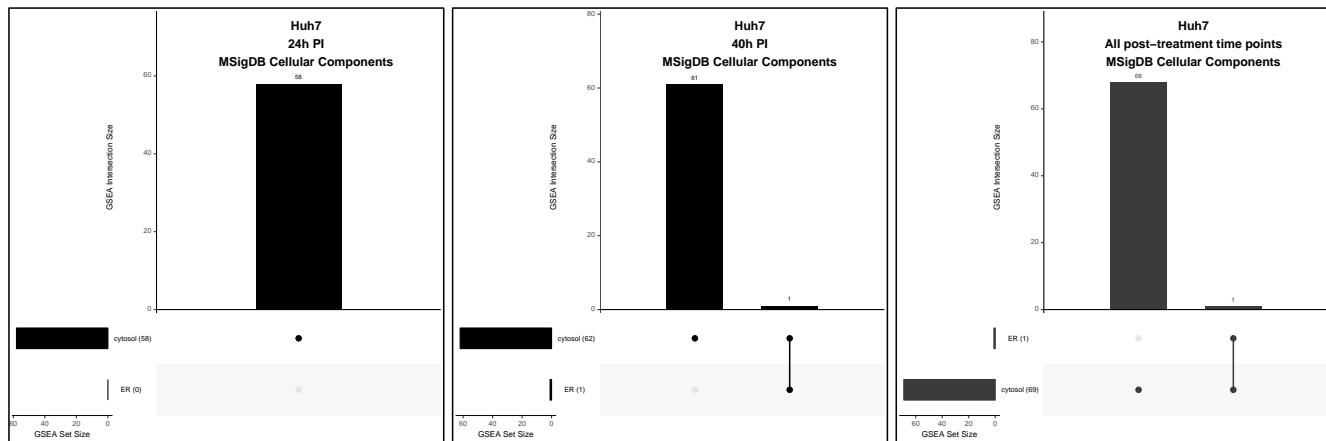


Figure 70: UpSet plots of enriched gene sets between treatment groups (RNA-Seq, Huh7, MSigDB Cellular Components)..

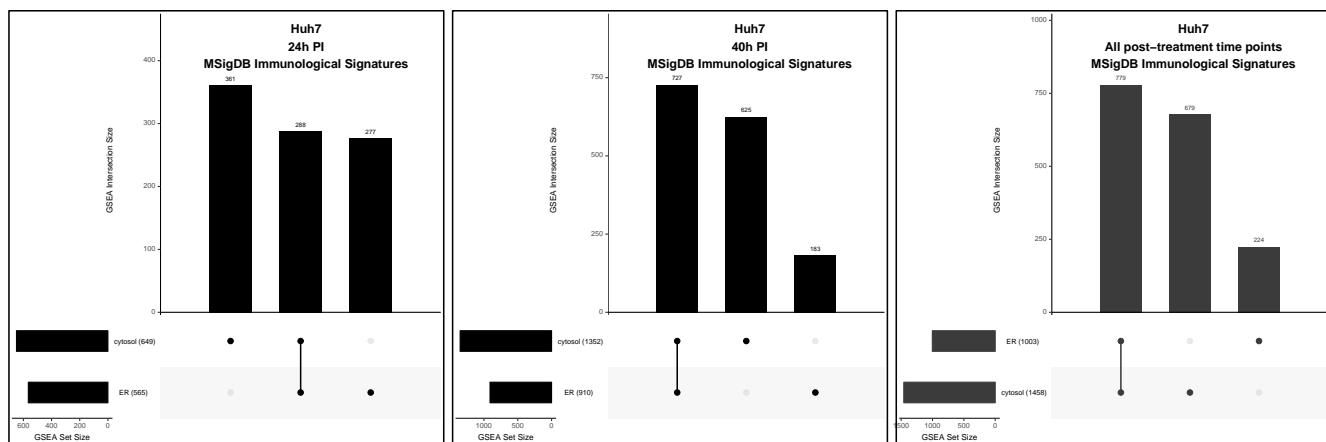


Figure 71: UpSet plots of enriched gene sets between treatment groups (RNA-Seq, Huh7, MSigDB Immunological Signatures)..

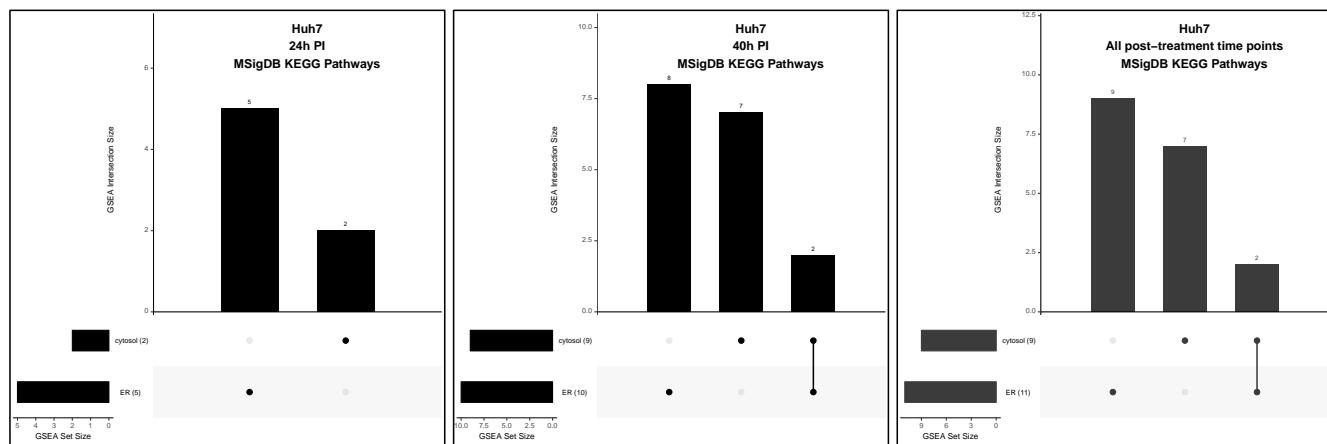


Figure 72: UpSet plots of enriched gene sets between treatment groups (RNA-Seq, Huh7, MSigDB KEGG Pathways)..

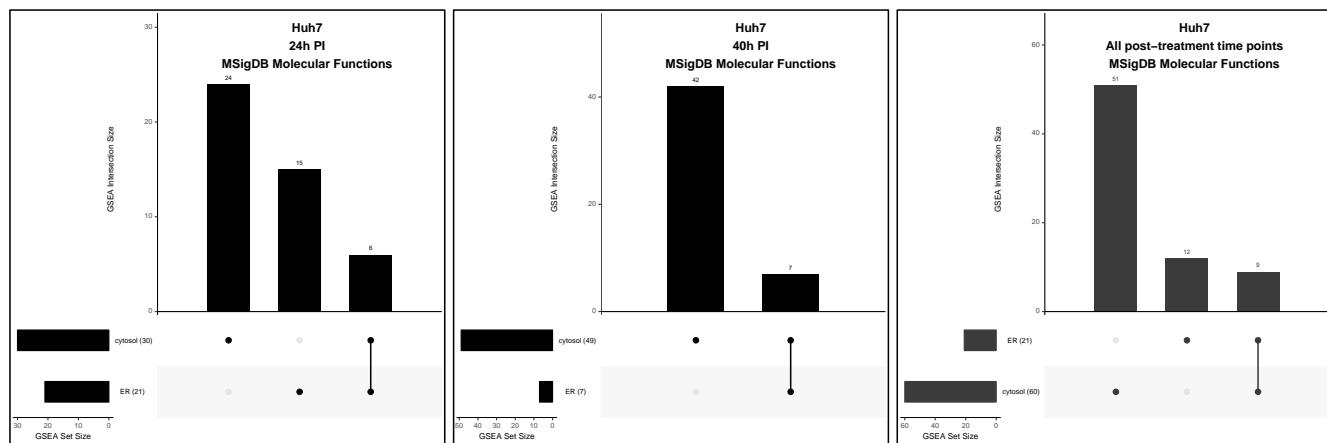


Figure 73: UpSet plots of enriched gene sets between treatment groups (RNA-Seq, Huh7, MSigDB Molecular Functions)..

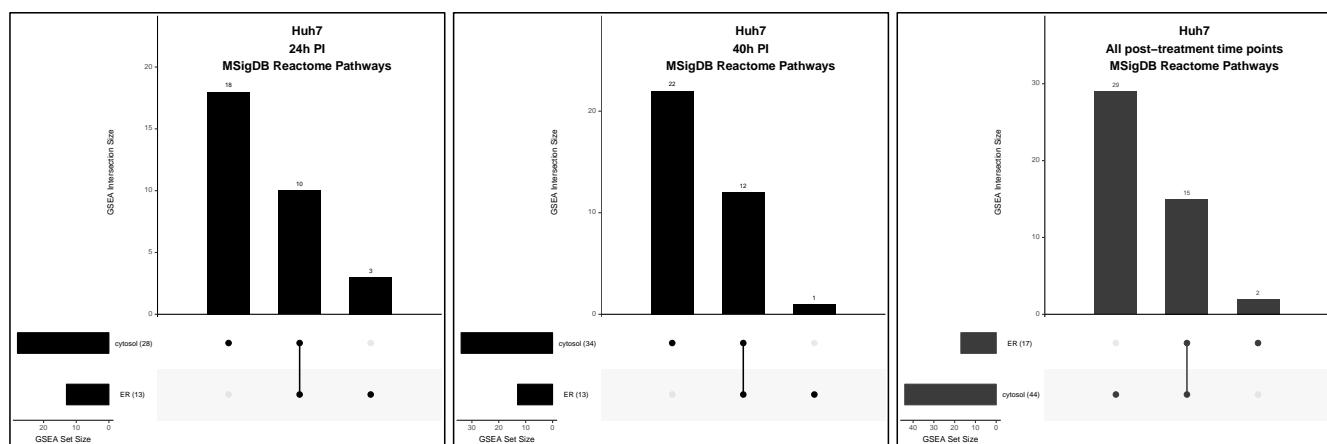


Figure 74: UpSet plots of enriched gene sets between treatment groups (RNA-Seq, Huh7, MSigDB Reactome Pathways)..

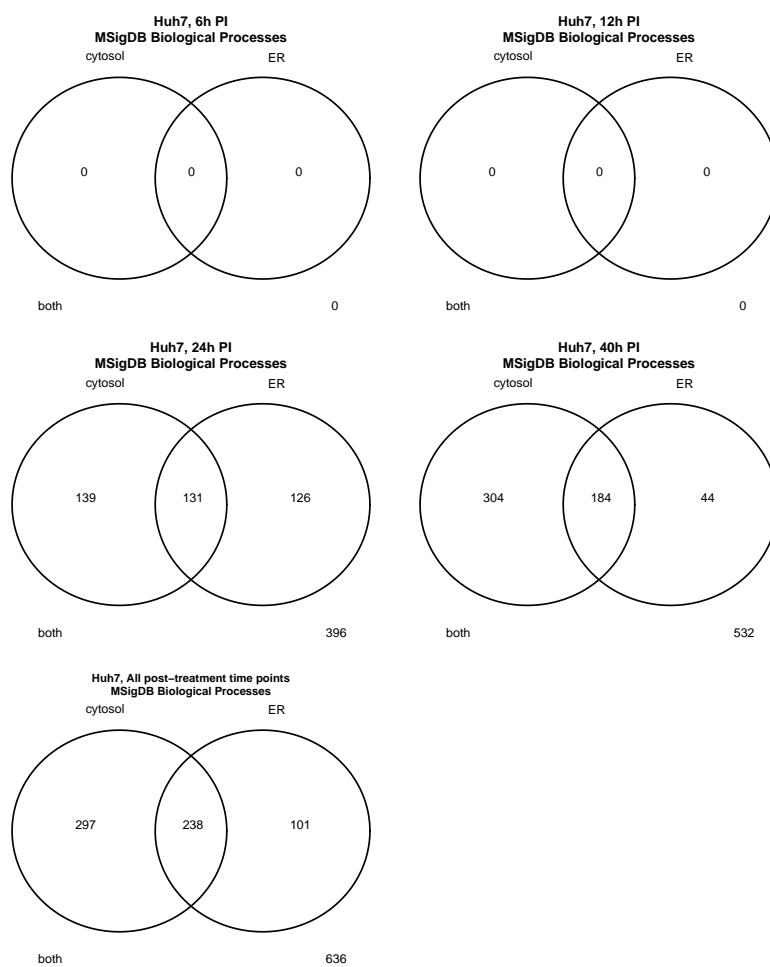


Figure 75: Venn diagrams of enriched MSigDB Biological Processes between treatment groups (RNA-Seq, Huh7).

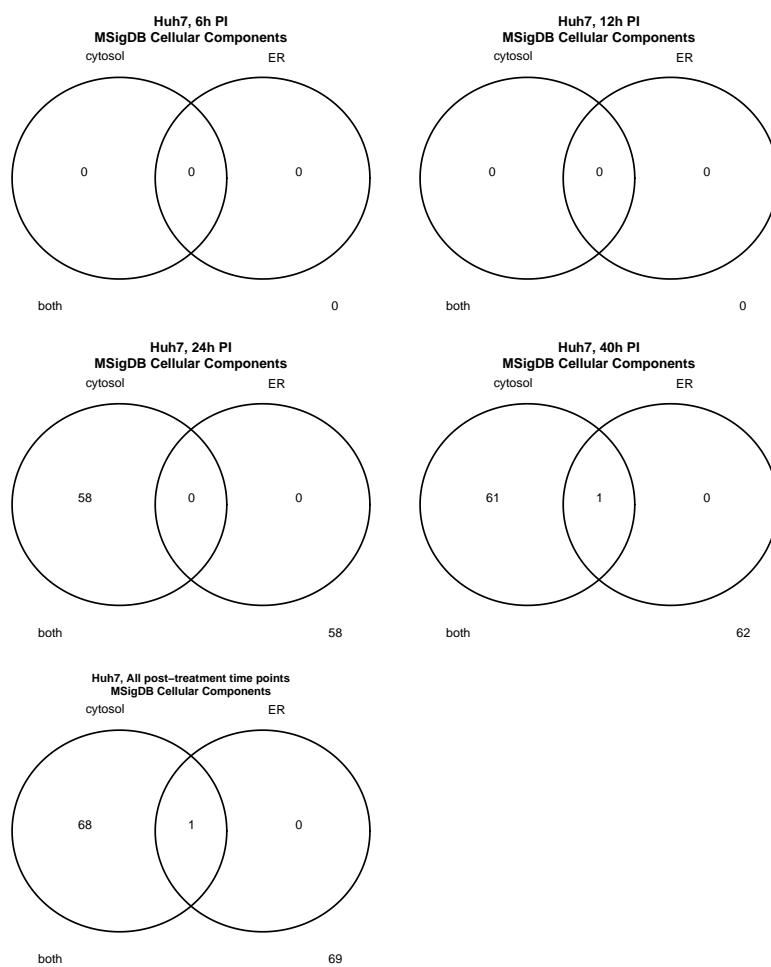


Figure 76: Venn diagrams of enriched MSigDB Cellular Components between treatment groups (RNA-Seq, Huh7).

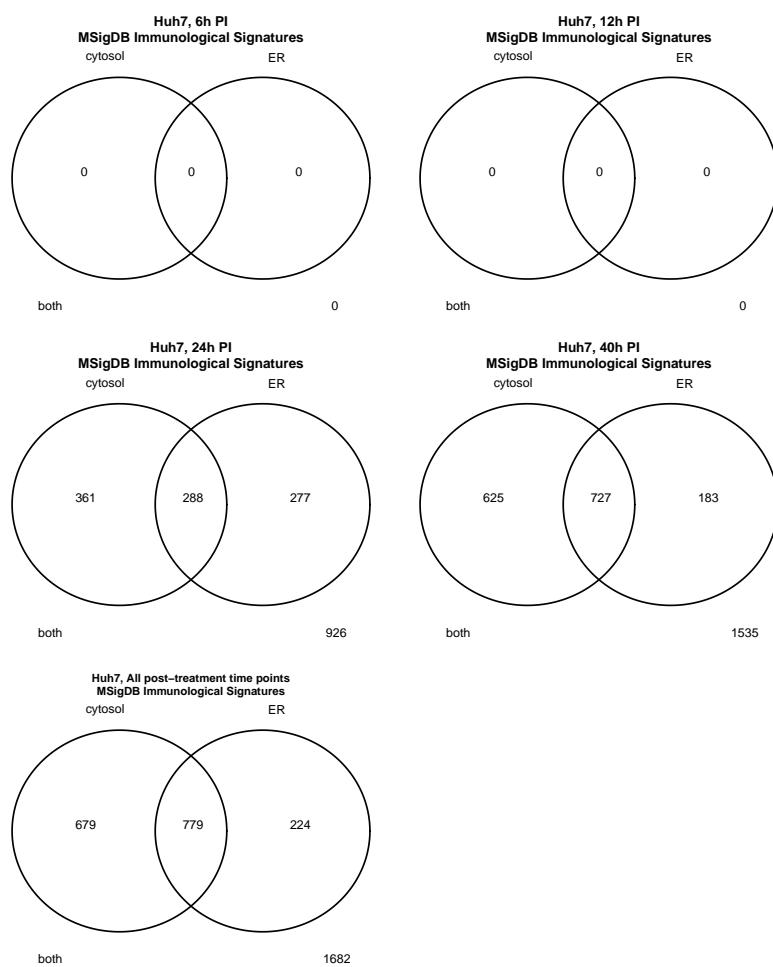


Figure 77: Venn diagrams of enriched MSigDB Immunological Signatures between treatment groups (RNA-Seq, Huh7).

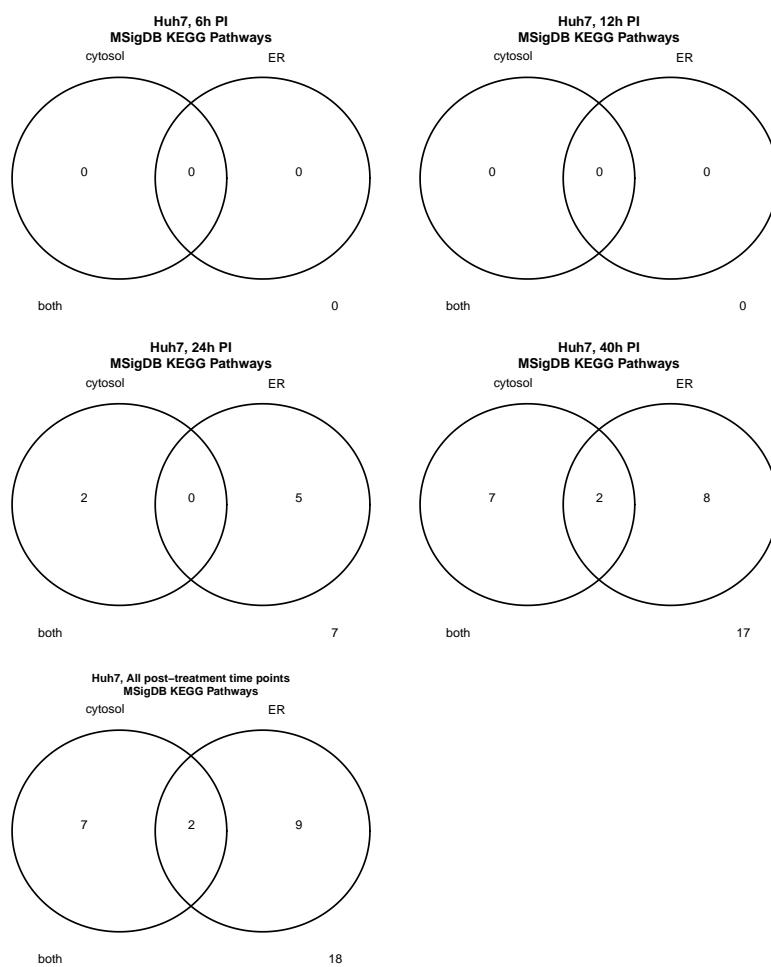


Figure 78: Venn diagrams of enriched MSigDB KEGG Pathways between treatment groups (RNA-Seq, Huh7).

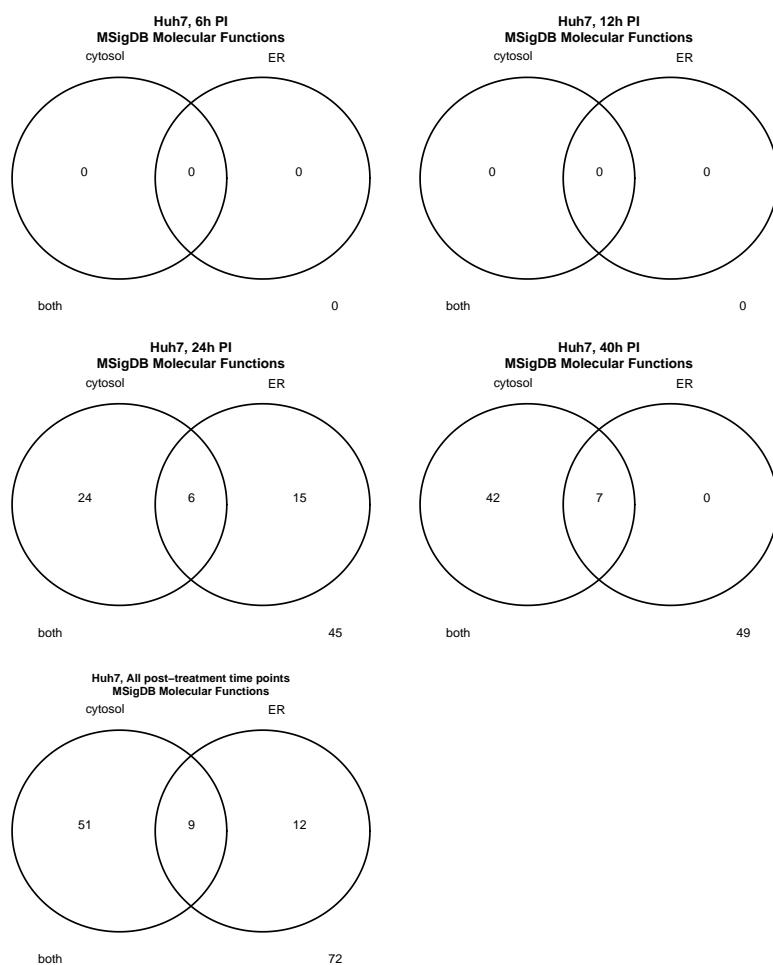


Figure 79: Venn diagrams of enriched MSigDB Molecular Functions between treatment groups (RNA-Seq, Huh7).

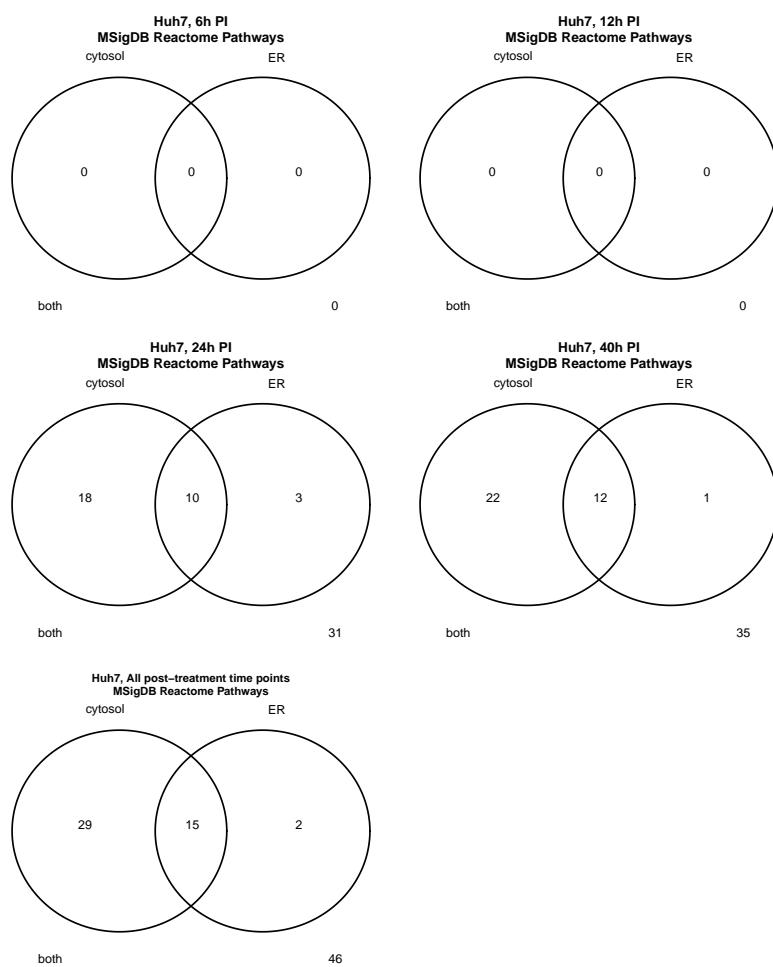


Figure 80: Venn diagrams of enriched MSigDB Reactome Pathways between treatment groups (RNA-Seq, Huh7).

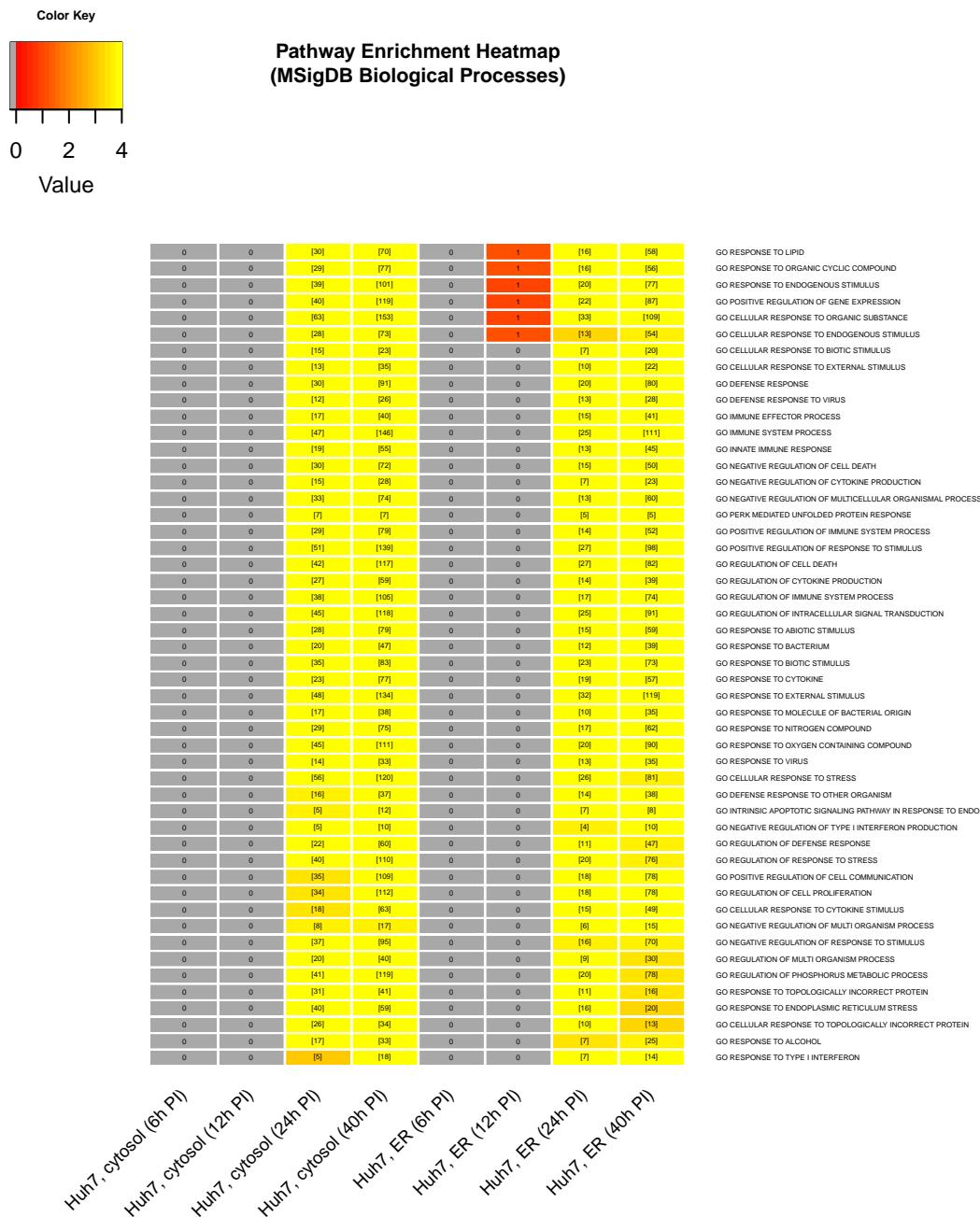


Figure 81: Heatmap of enriched MSigDB Biological Processes (RNA-Seq). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

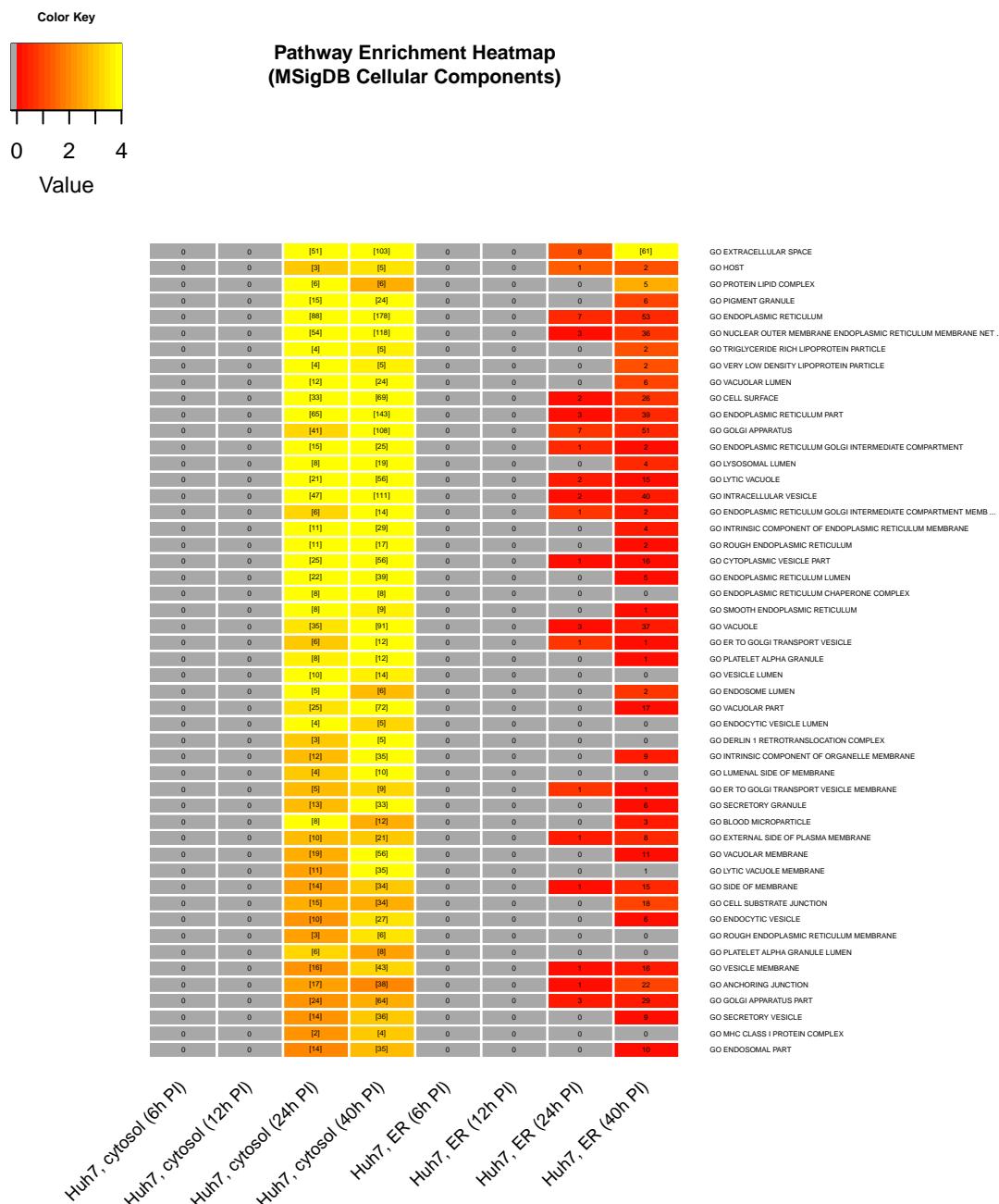


Figure 82: Heatmap of enriched MSigDB Cellular Components (RNA-Seq). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

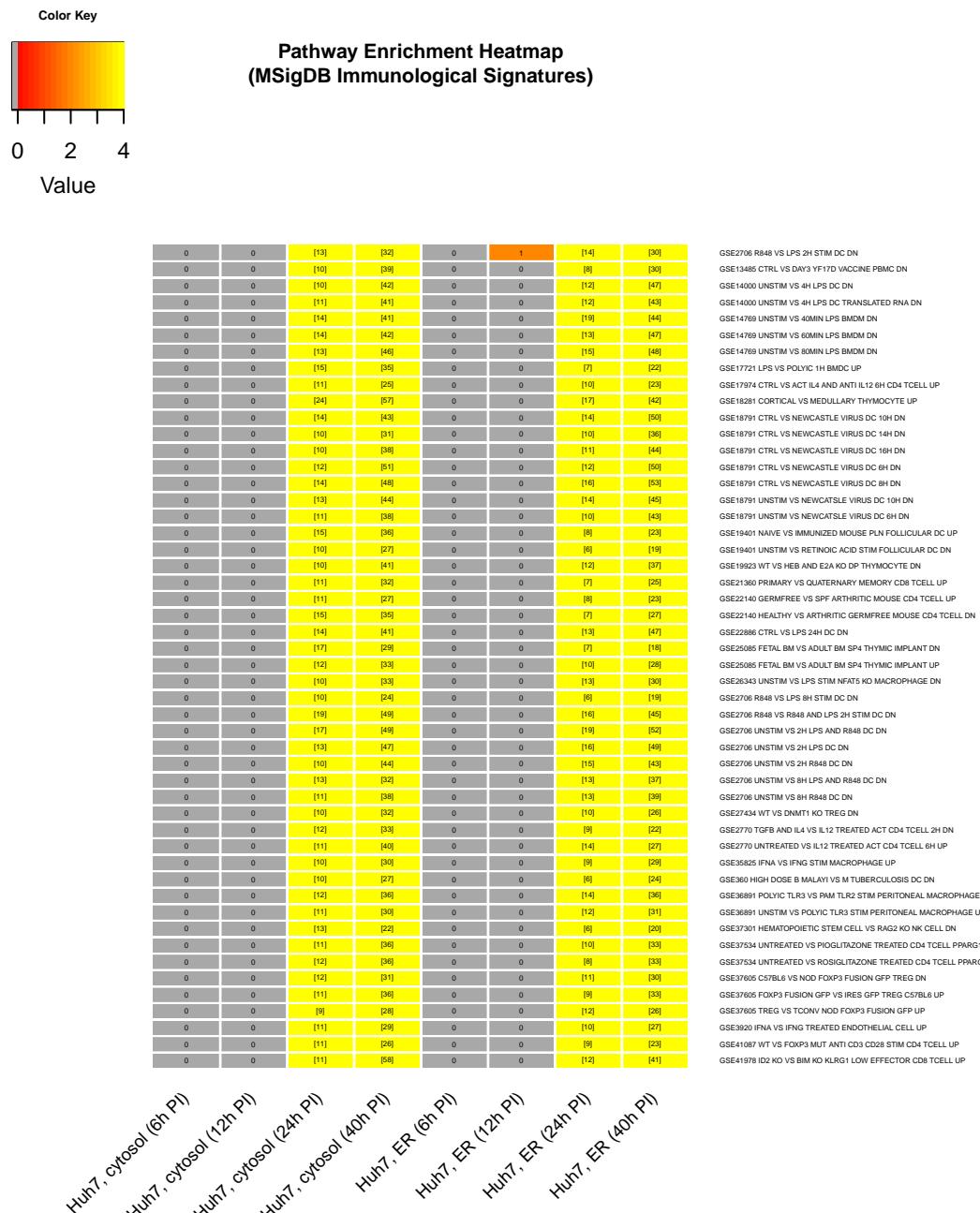


Figure 83: Heatmap of enriched MSigDB Immunological Signatures (RNA-Seq). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted } p\text{-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

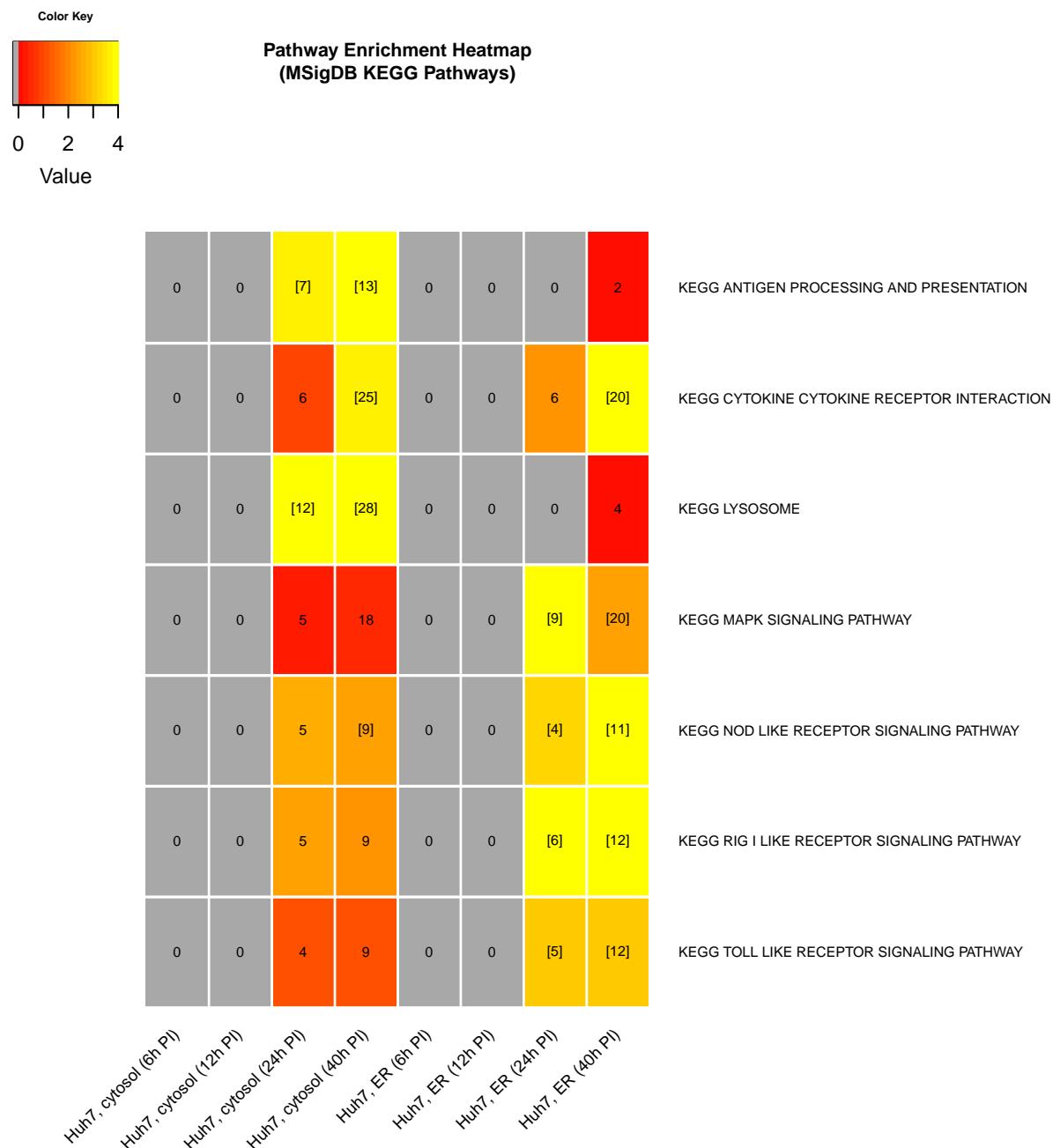


Figure 84: Heatmap of enriched MSigDB KEGG Pathways (RNA-Seq). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

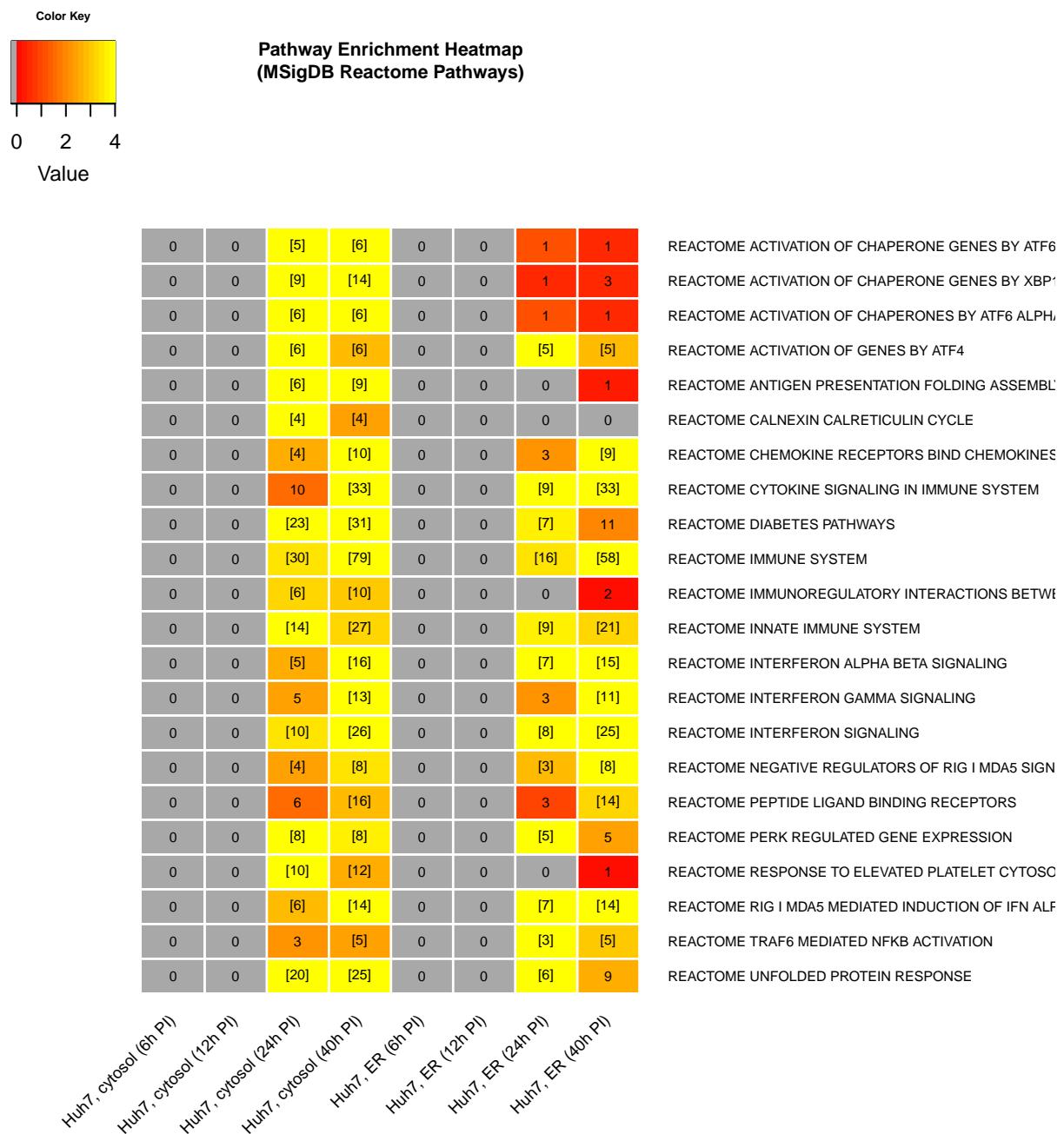


Figure 85: Heatmap of enriched MSigDB Reactome Pathways (RNA-Seq). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

Huh7, cytosol

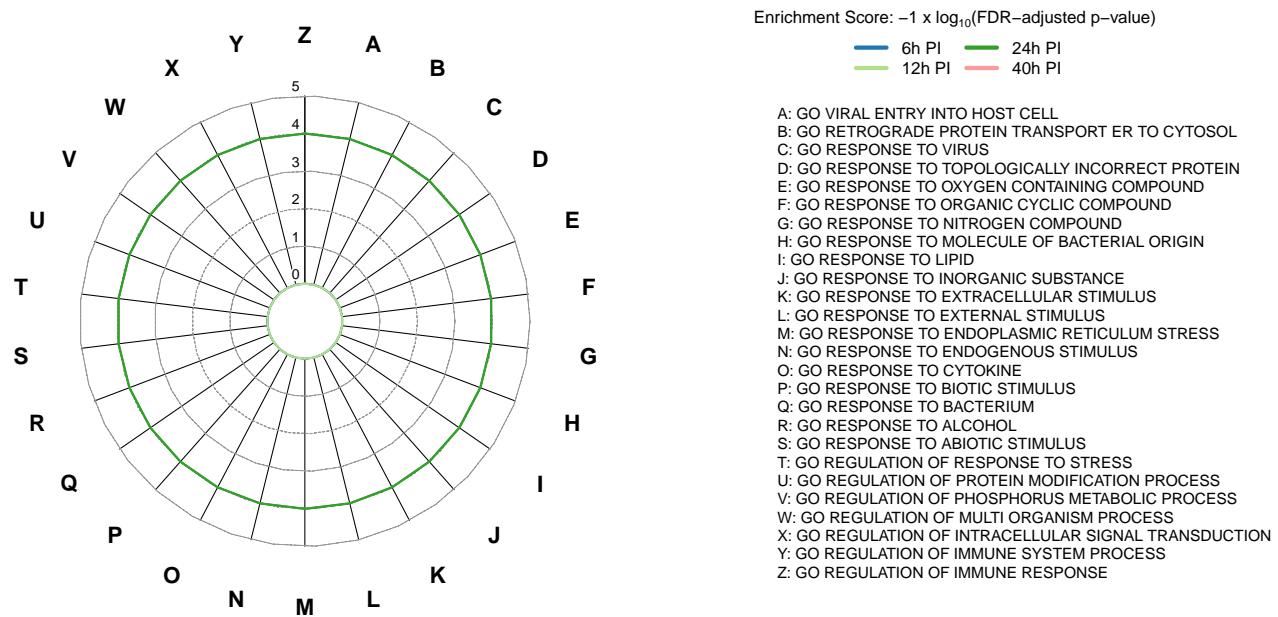


Figure 86: Radar Plot of enriched MSigDB Biological Processes (RNA-Seq, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, ER

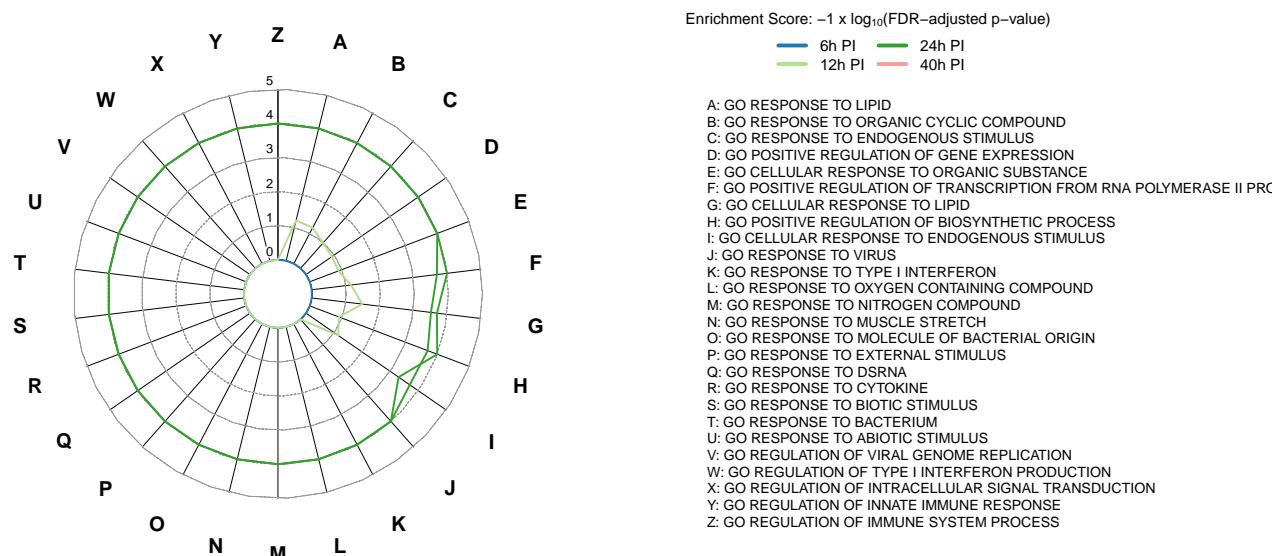


Figure 87: Radar Plot of enriched MSigDB Biological Processes (RNA-Seq, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, cytosol

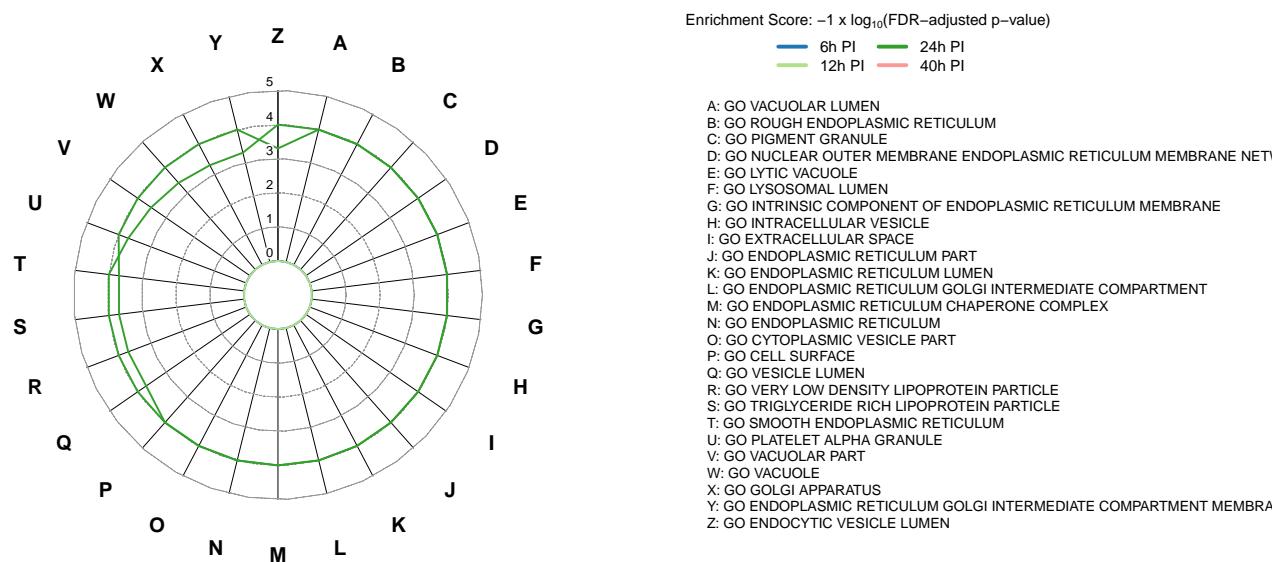


Figure 88: Radar Plot of enriched MSigDB Cellular Components (RNA-Seq, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, ER

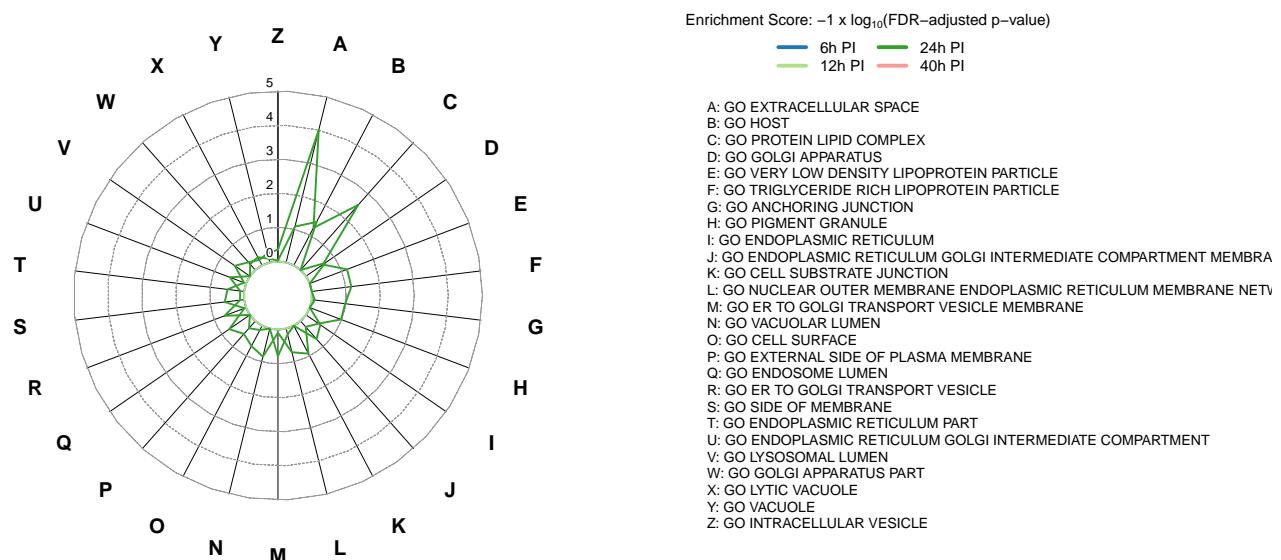


Figure 89: Radar Plot of enriched MSigDB Cellular Components (RNA-Seq, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, cytosol

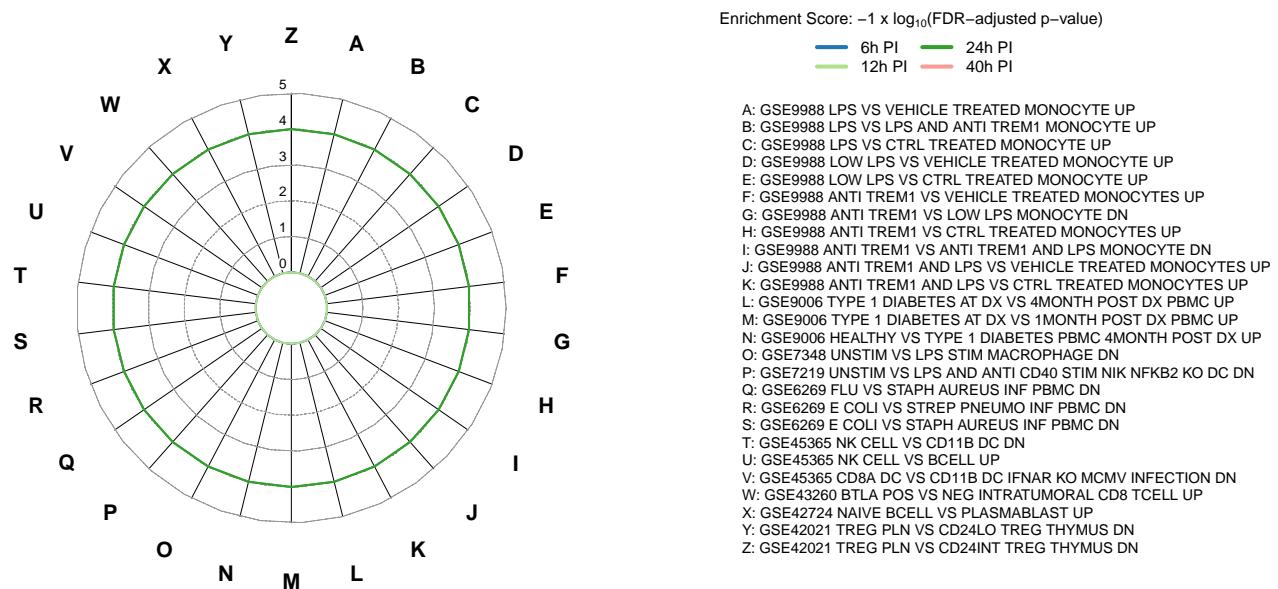


Figure 90: Radar Plot of enriched MSigDB Immunological Signatures (RNA-Seq, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, ER

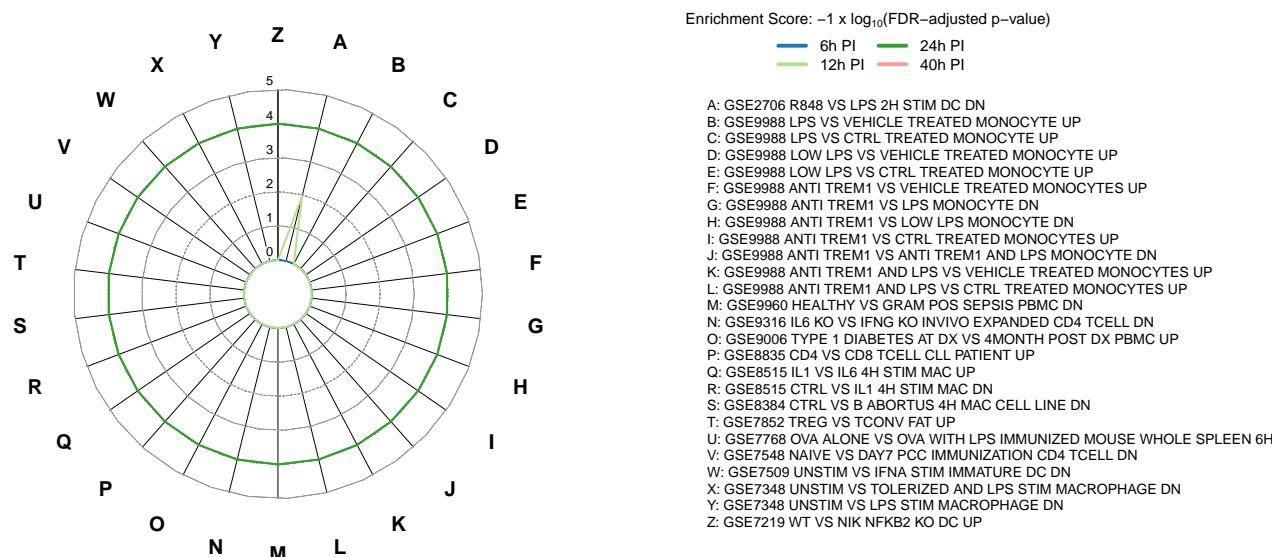


Figure 91: Radar Plot of enriched MSigDB Immunological Signatures (RNA-Seq, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, cytosol

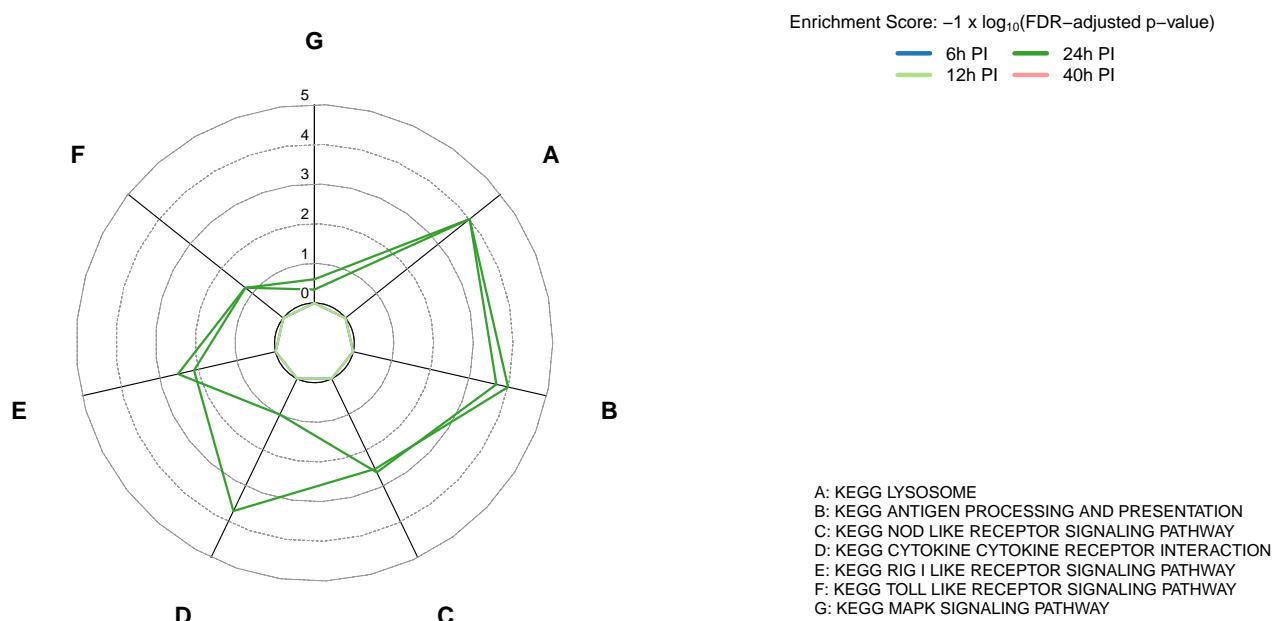


Figure 92: Radar Plot of enriched MSigDB KEGG Pathways (RNA-Seq, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

Huh7, ER



Figure 93: Radar Plot of enriched MSigDB KEGG Pathways (RNA-Seq, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

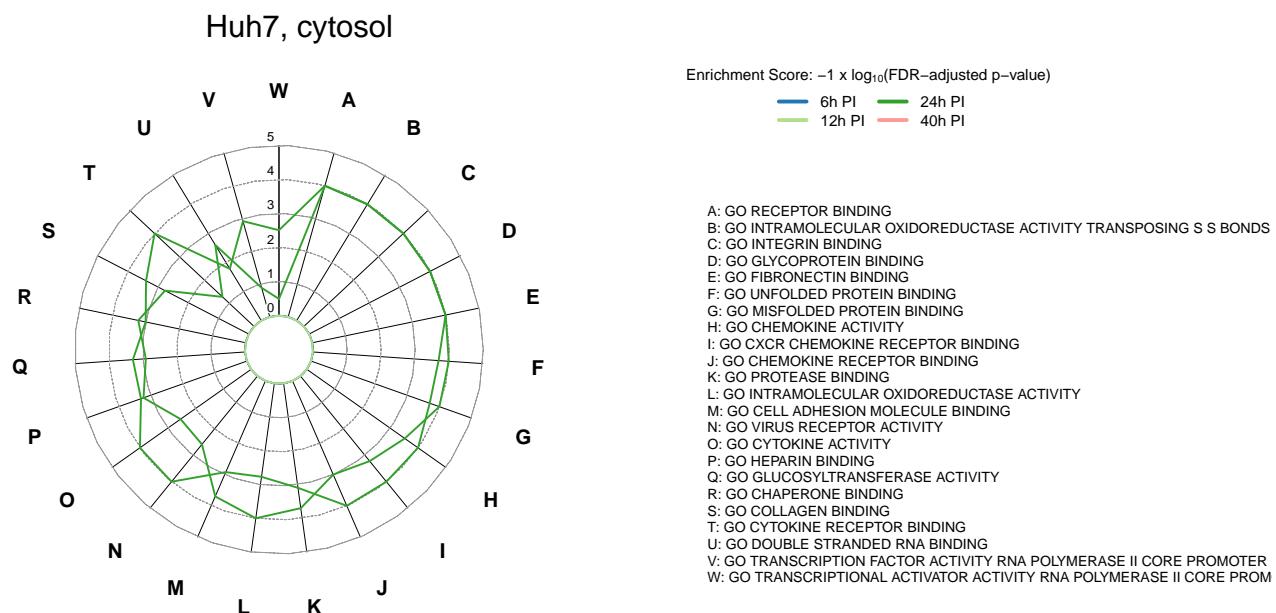


Figure 94: Radar Plot of enriched MSigDB Molecular Functions (RNA-Seq, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

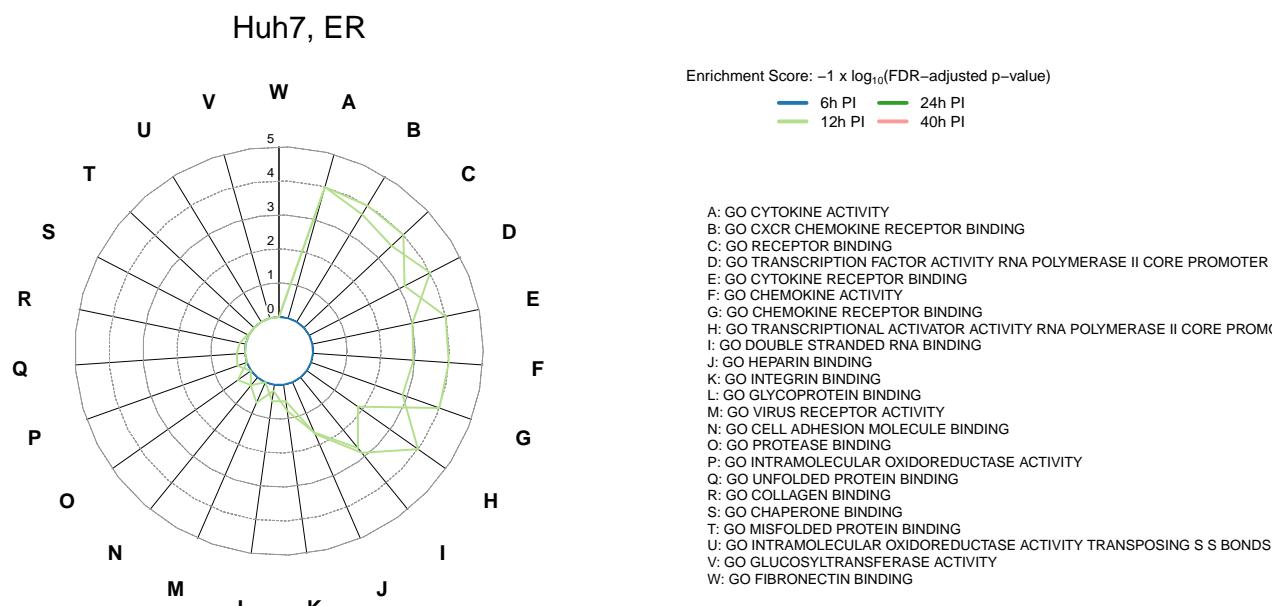


Figure 95: Radar Plot of enriched MSigDB Molecular Functions (RNA-Seq, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

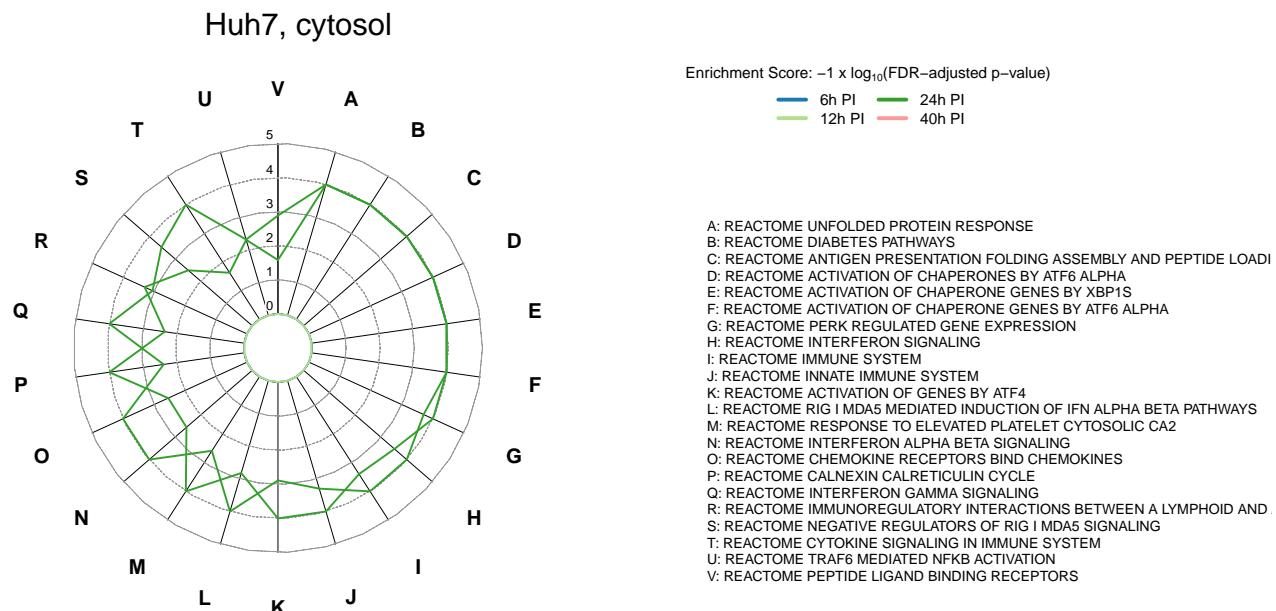


Figure 96: Radar Plot of enriched MSigDB Reactome Pathways (RNA-Seq, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

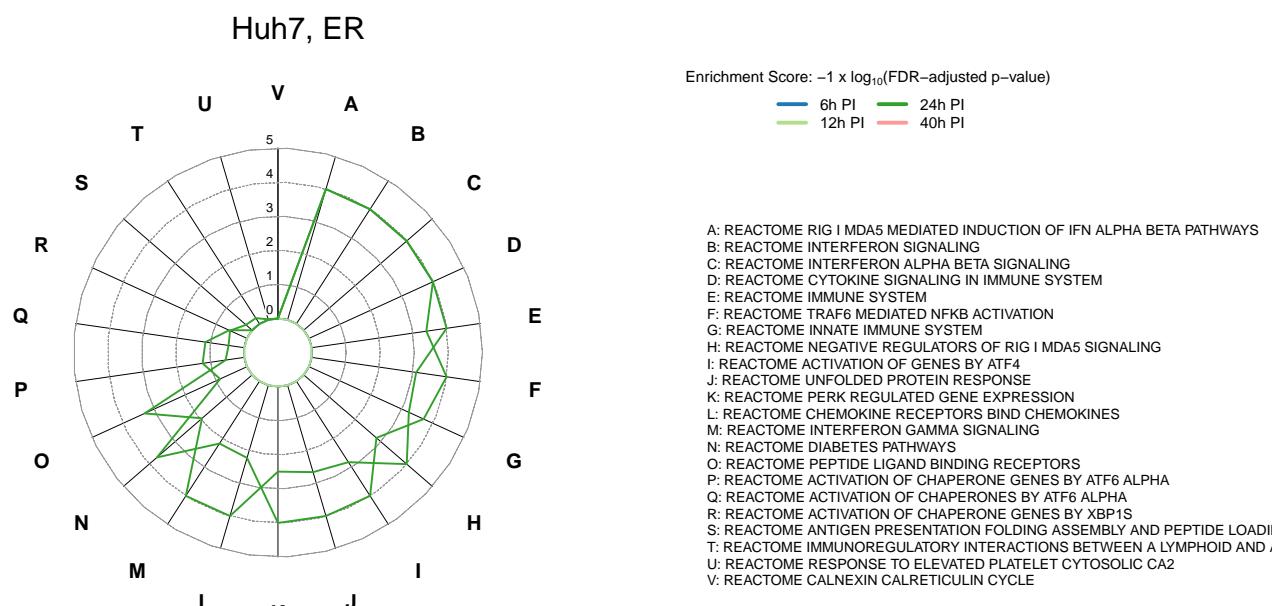


Figure 97: Radar Plot of enriched MSigDB Reactome Pathways (RNA-Seq, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets.

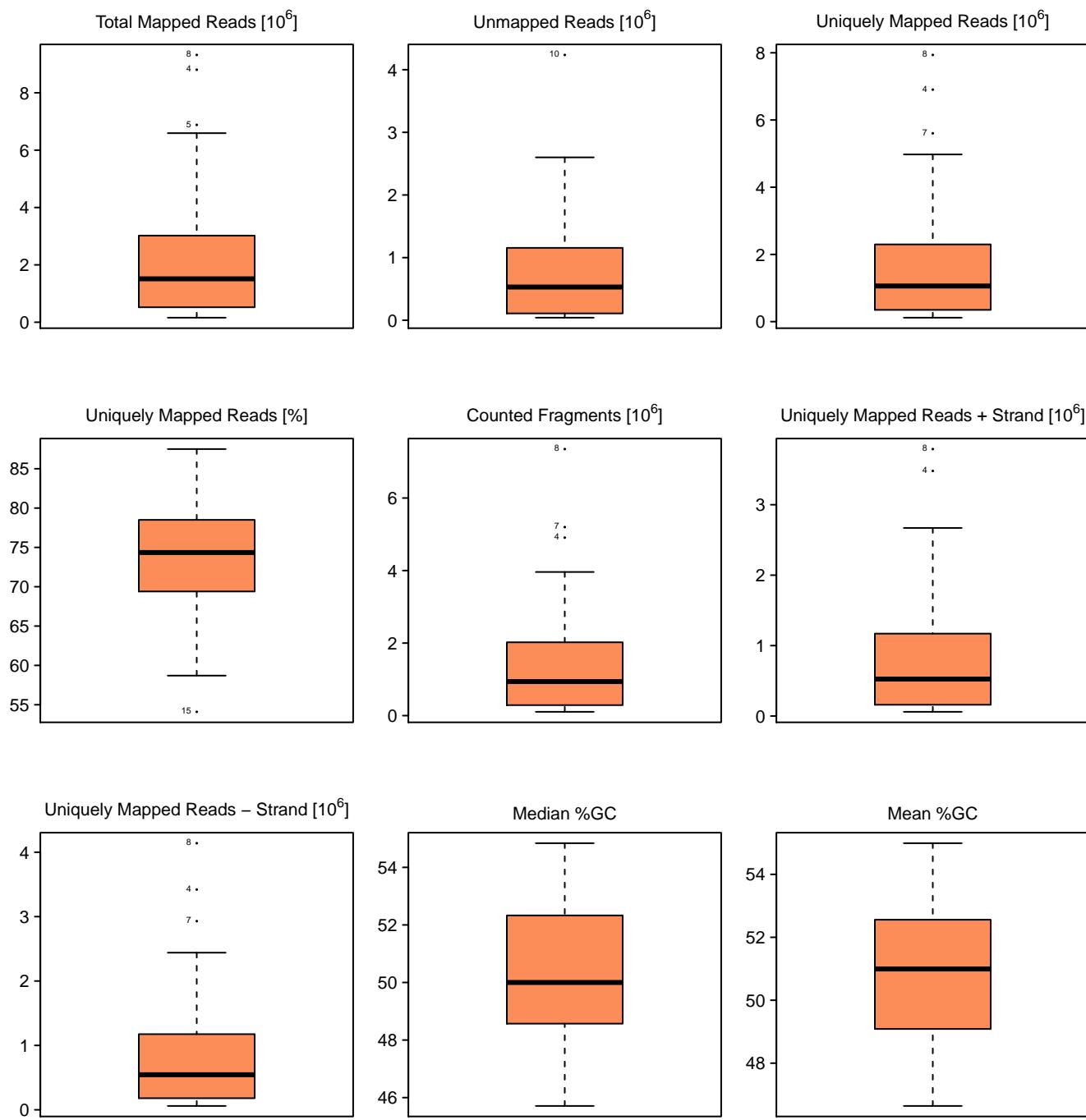


Figure 98: Boxplots of human reference genome alignment genome statistics (RP, All specimen types).

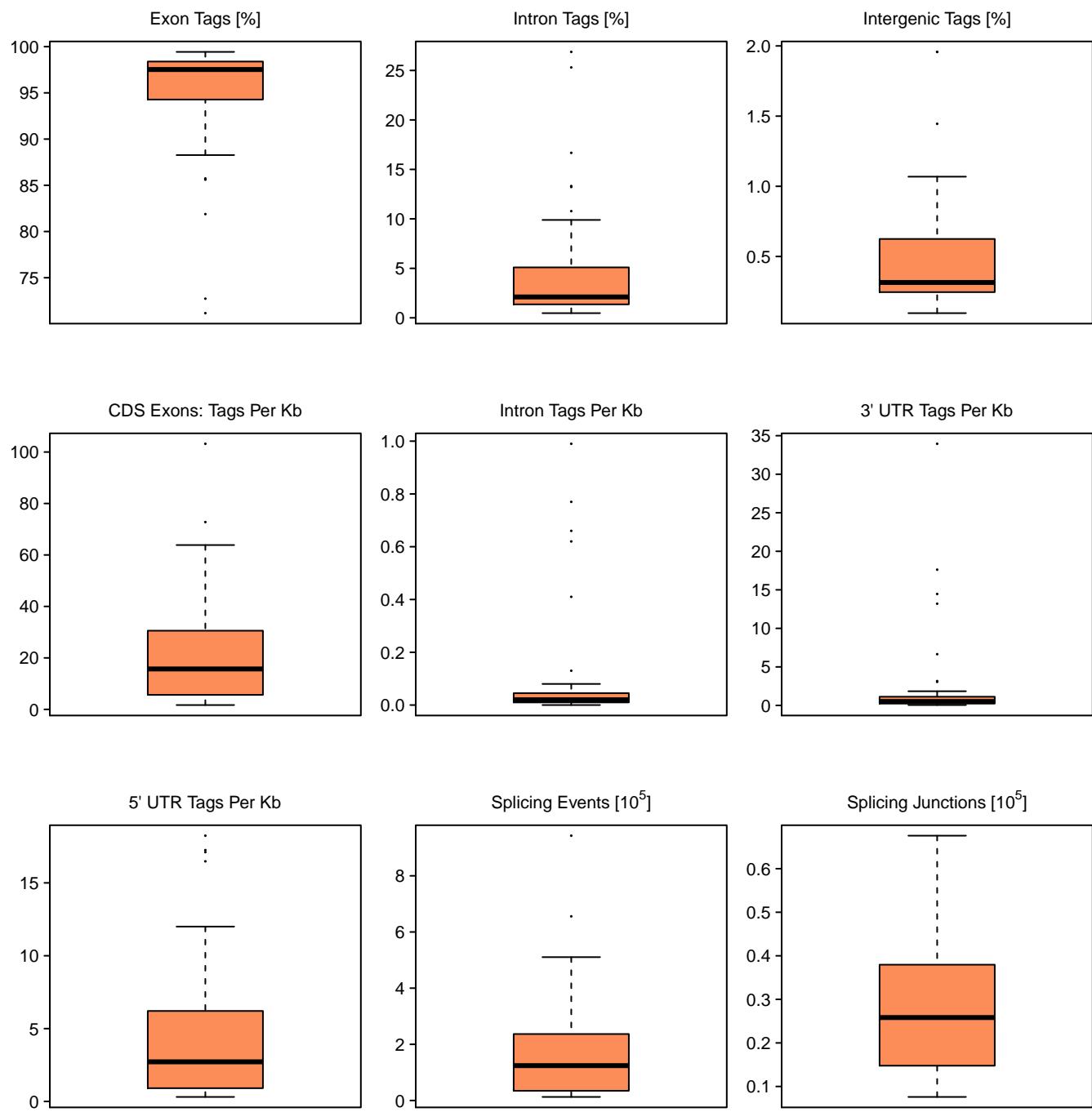


Figure 99: Boxplots of human reference genome alignment gene model statistics (RP, All specimen types).

Huh7

Reference Alignment Statistics

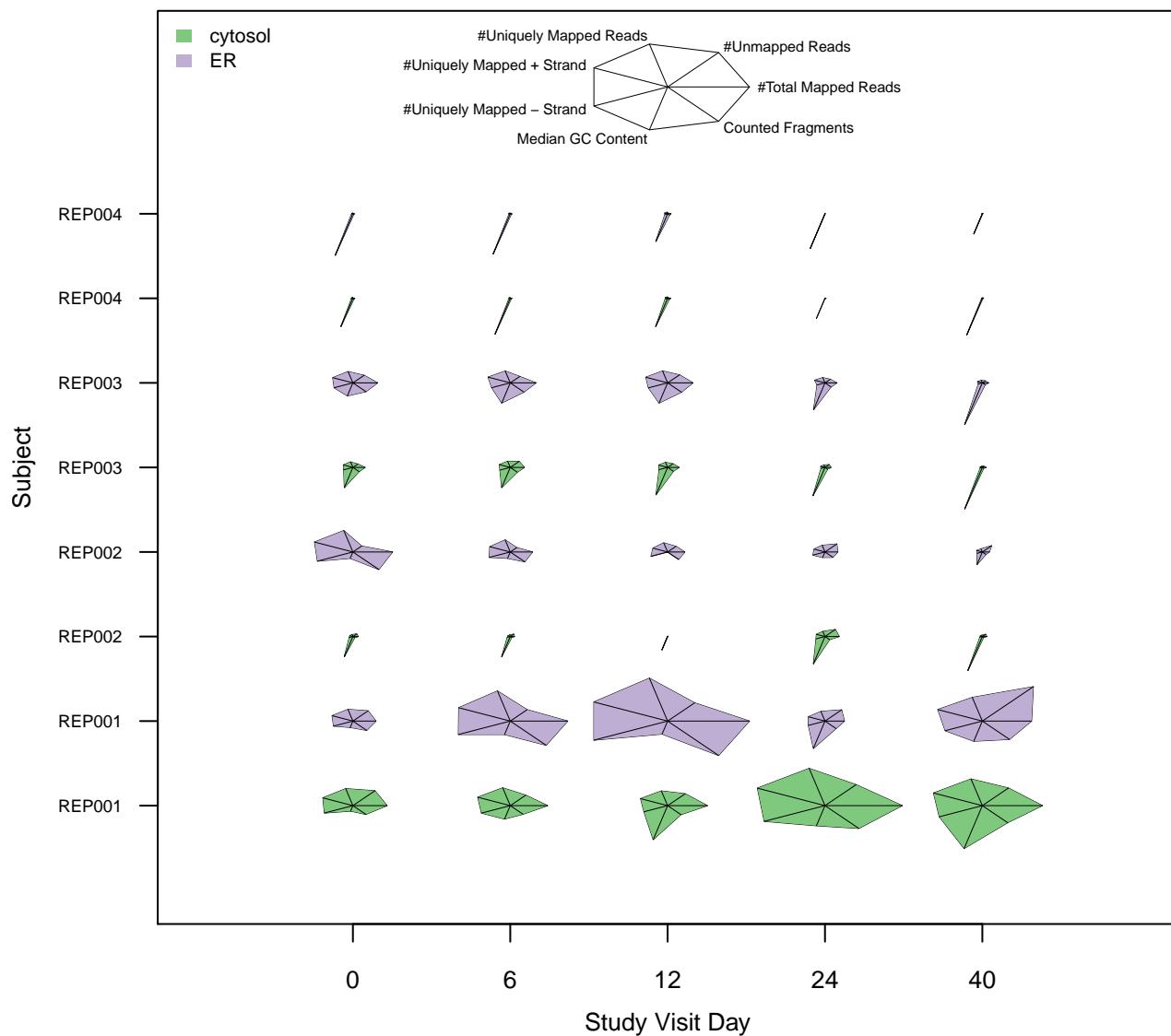


Figure 100: Starplots of human reference genome alignment statistics (RP, Huh7).

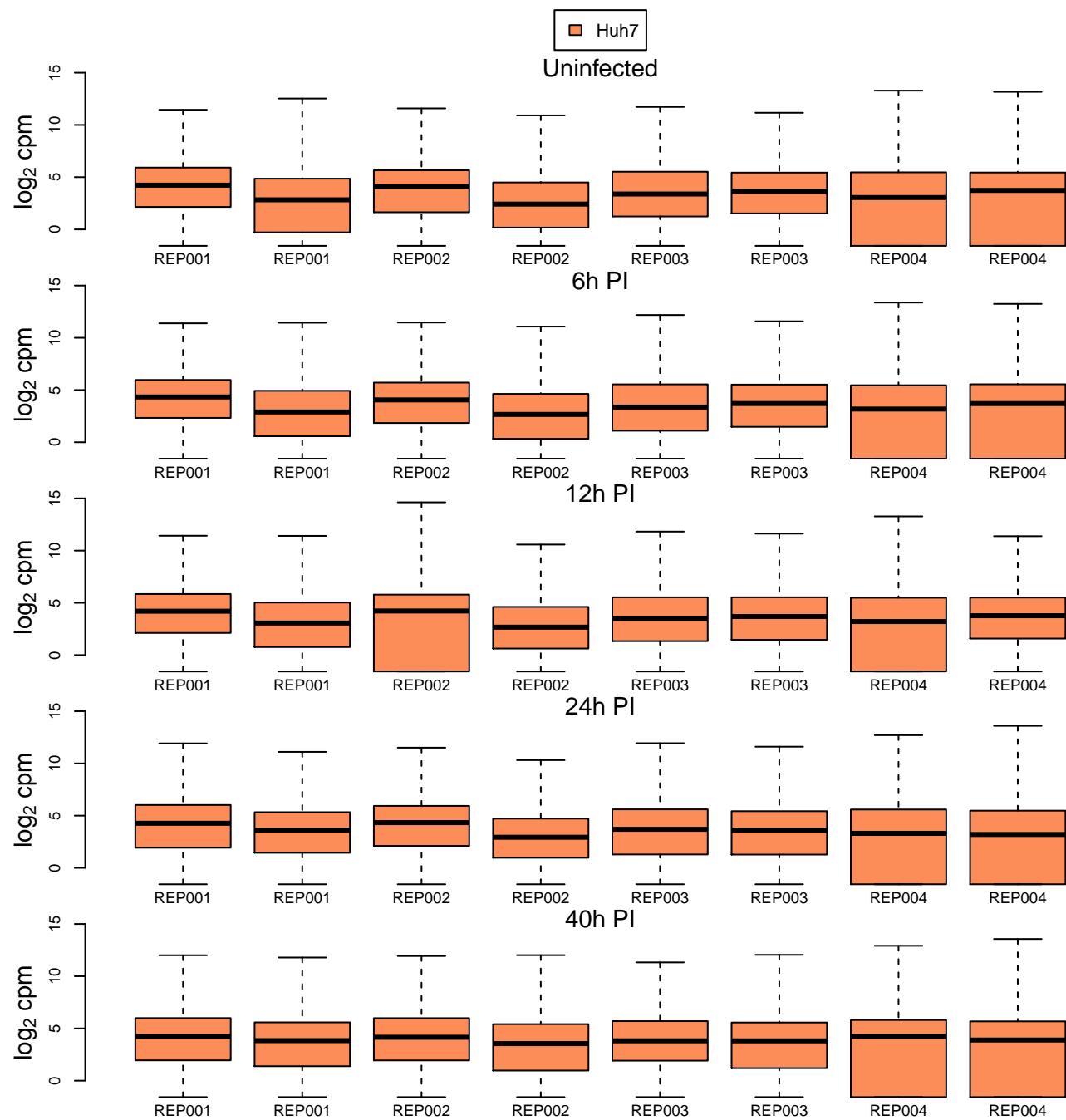


Figure 101: Boxplots of \log_2 counts per million before TMM normalization (RP, All specimen types).

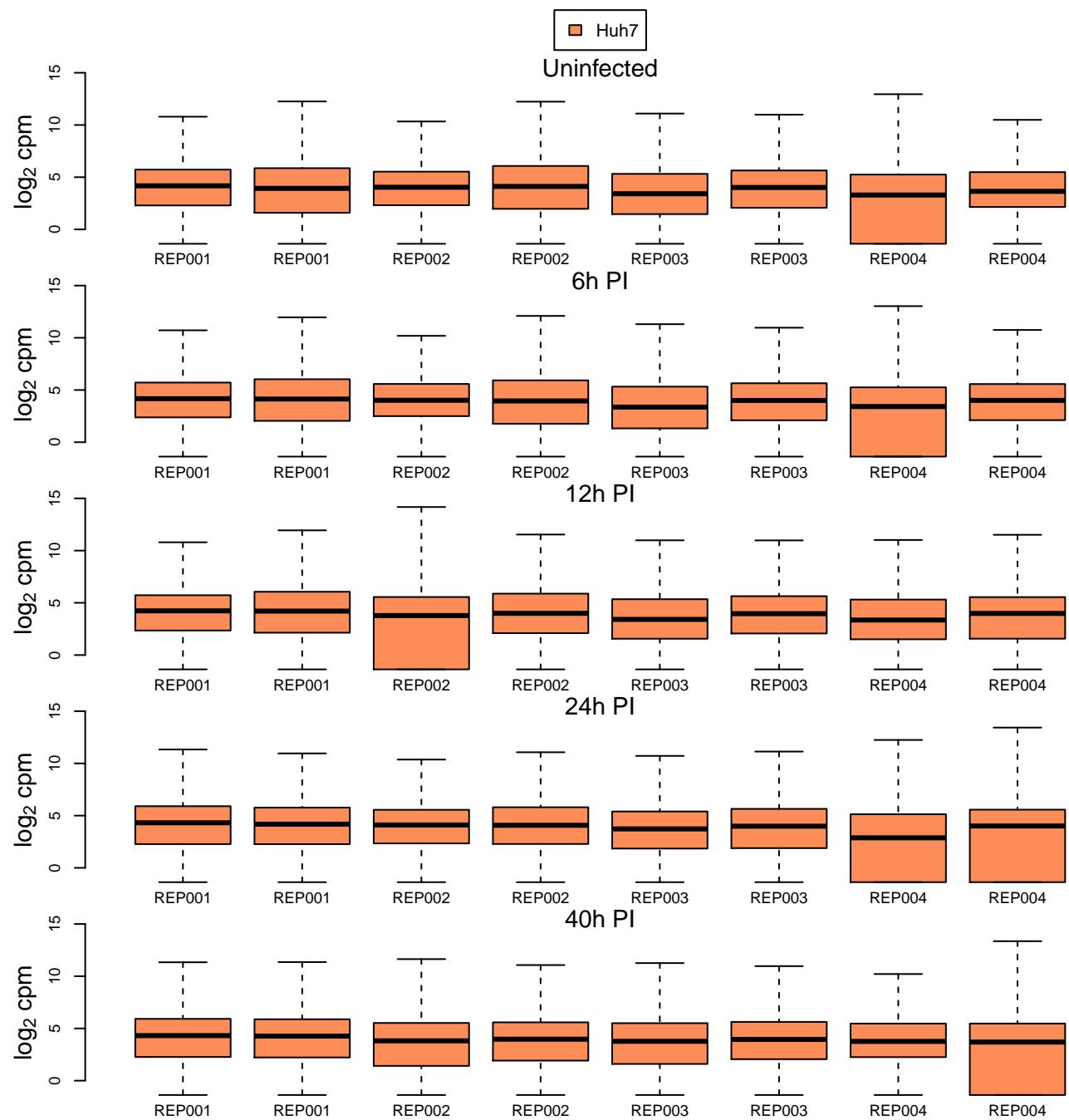


Figure 102: Boxplots of \log_2 counts per million after TMM normalization (RP, All specimen types).

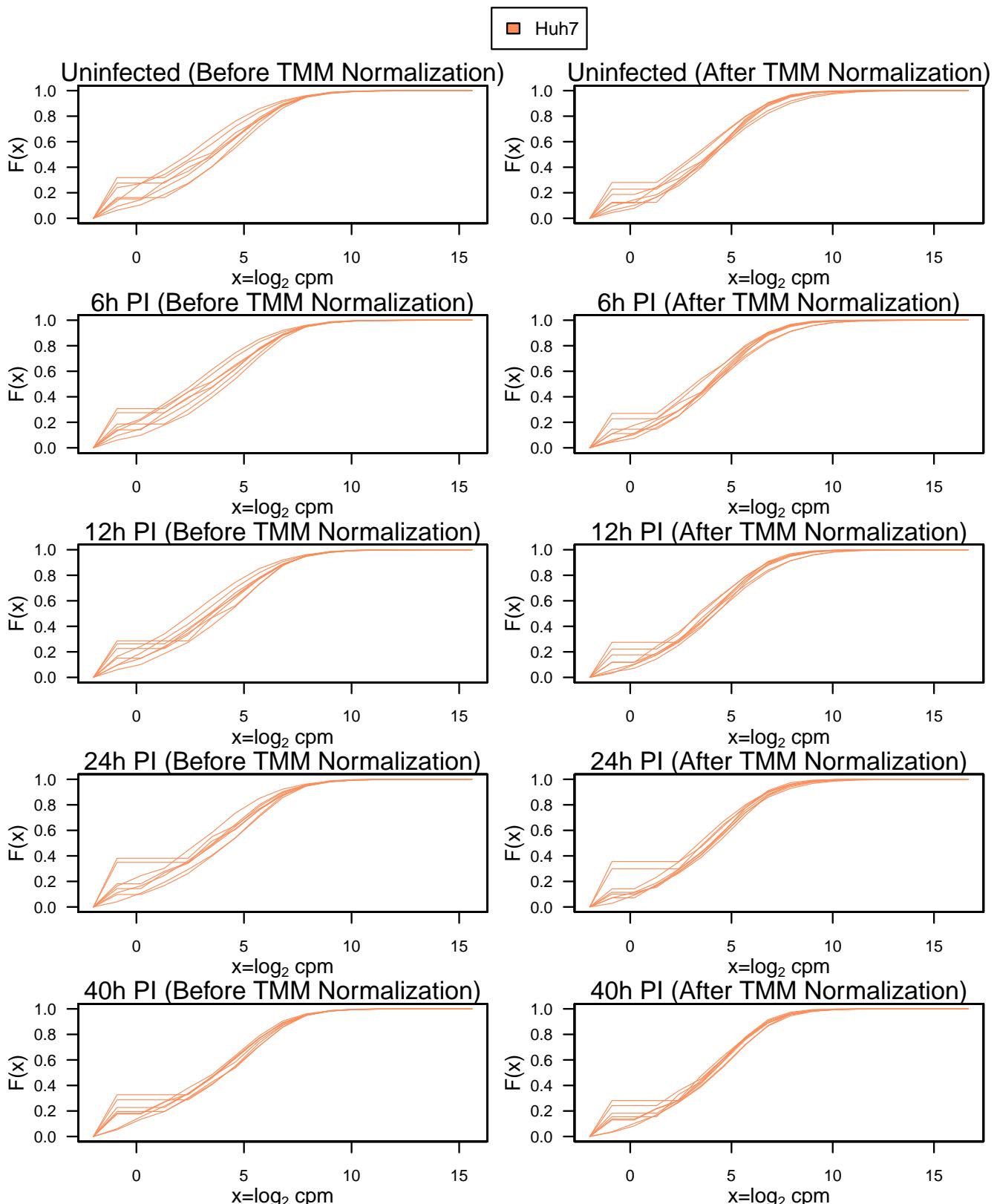


Figure 103: Empirical cumulative distribution function plots of \log_2 counts per million before and after TMM normalization (RP, All specimen types).

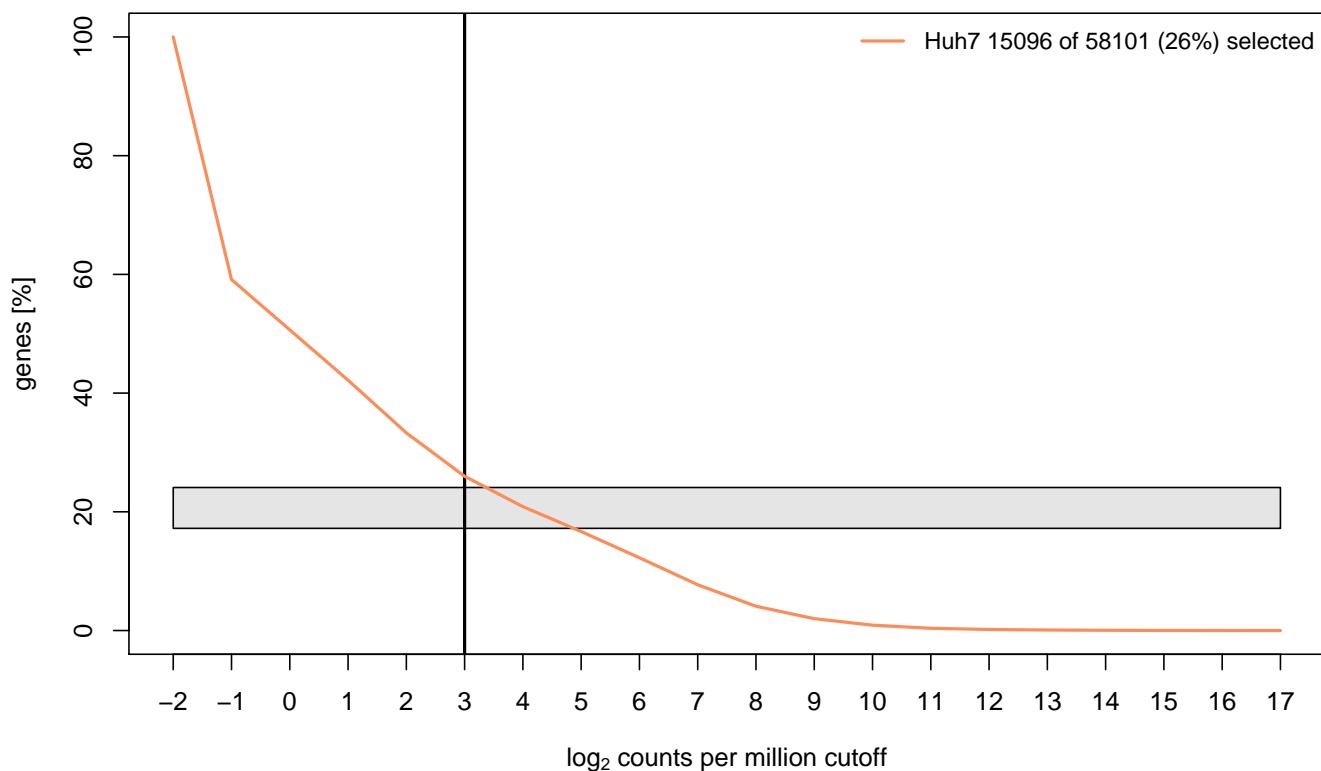


Figure 104: Reverse empirical cumulative distribution function plots of maximum gene expression levels across study samples (RP, All specimen types). The x-axis represents the \log_2 count per million cut off for identifying lowly expressed genes. The y-axis shows the percentage of all genes whose maximum gene expression level across all study samples exceeds the respective cut off. The grey box indicates the target range of genes to be selected (between 10000 and 14000 genes). The black vertical lines represent the specified cut off ($3 \log_2$ counts per million).

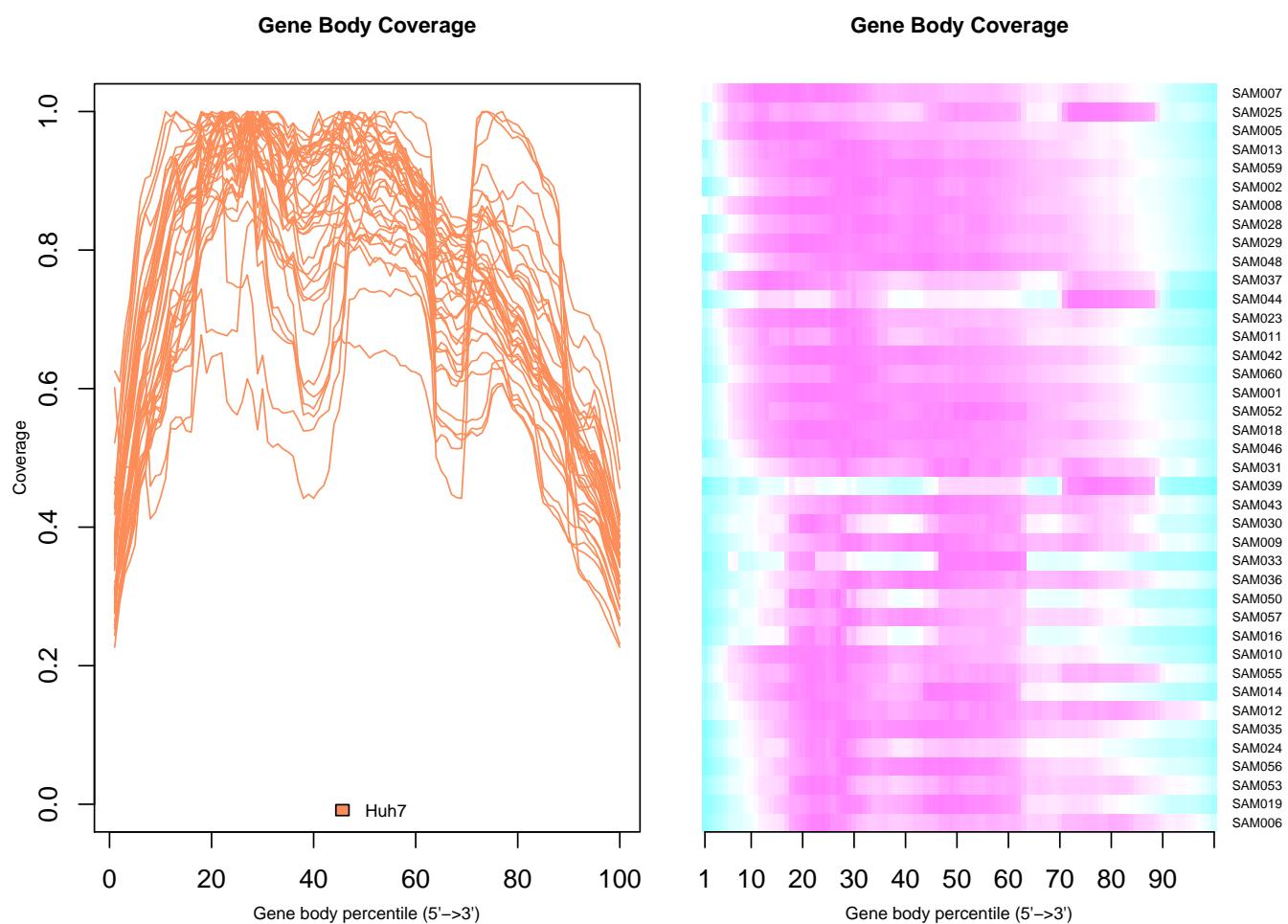


Figure 105: Gene body coverage plots (RP).

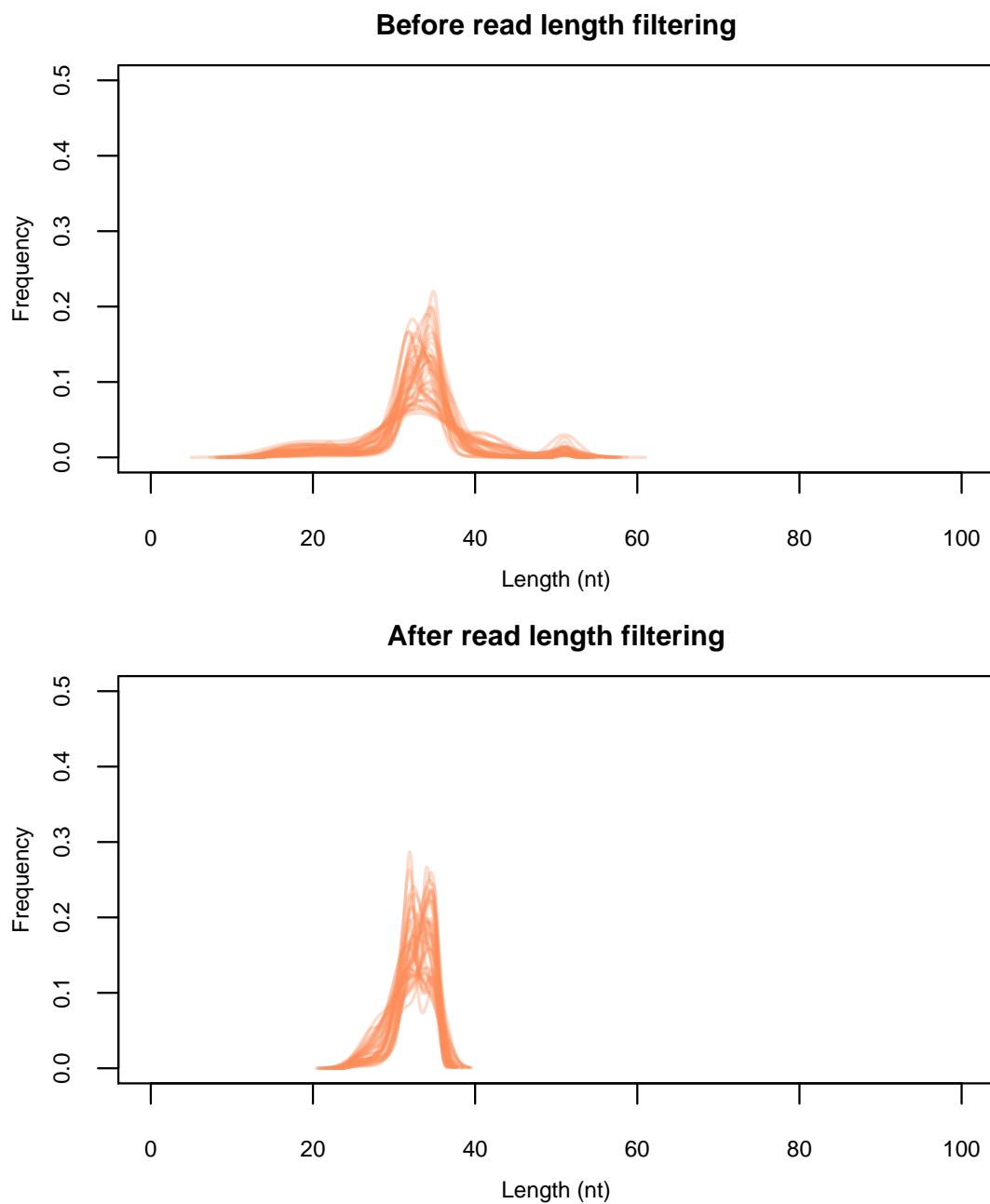


Figure 106: Read length distribution plots (RP).

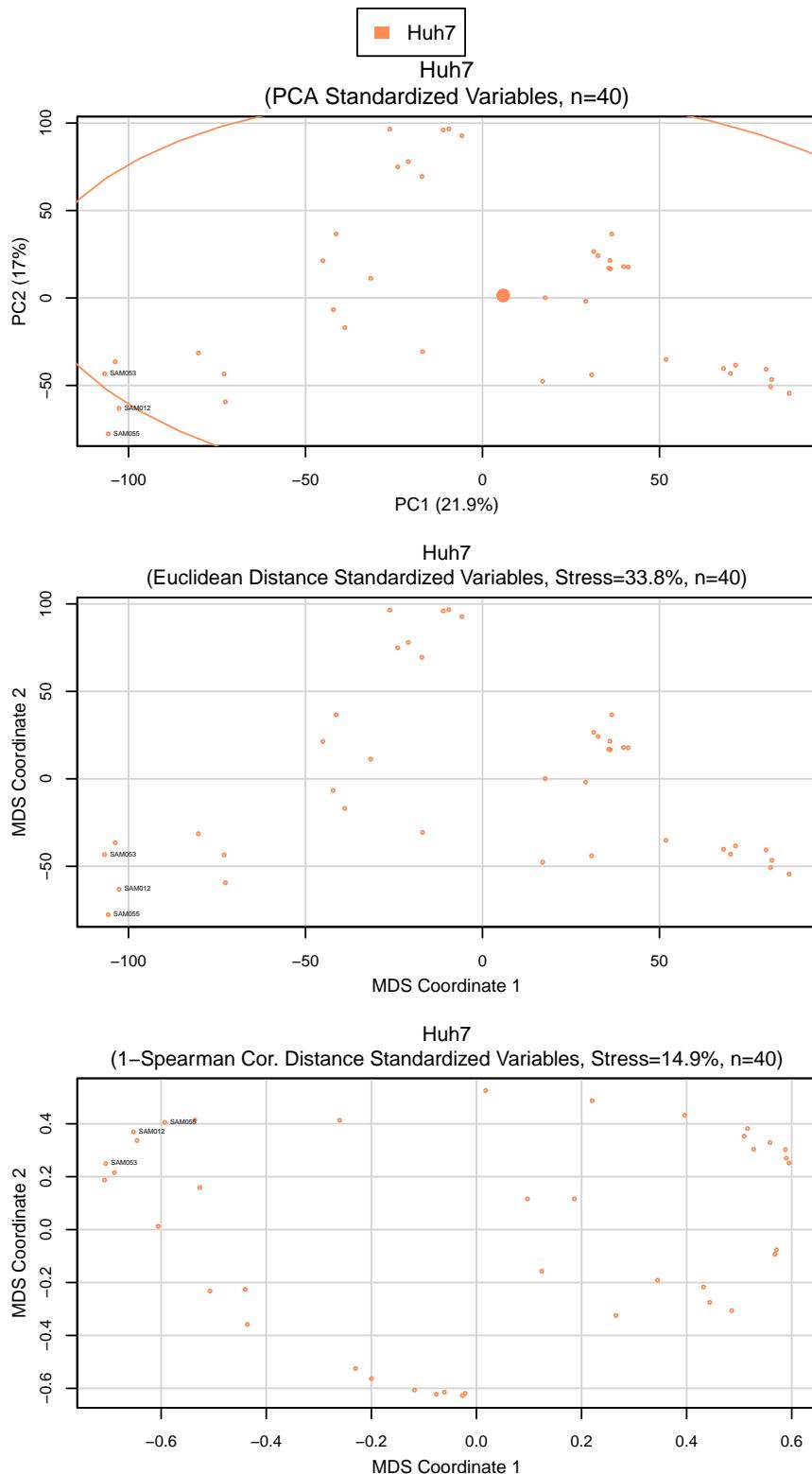


Figure 107: PCA and non-metric multidimensional scaling biplots (RP, Huh7). PCA biplots with bivariate 95% confidence ellipses for standardized variables are shown at the top. Non-metric MDS results for standardized variables and pairwise differences based on Euclidean distance are shown in the middle. Non-metric MDS results for original variables based on 1-Spearman correlation distance are shown at the bottom. Labels for the four most outlying samples per laboratory based on maximum Mahalanobis distance are shown. Strong outliers are highlighted in blue.

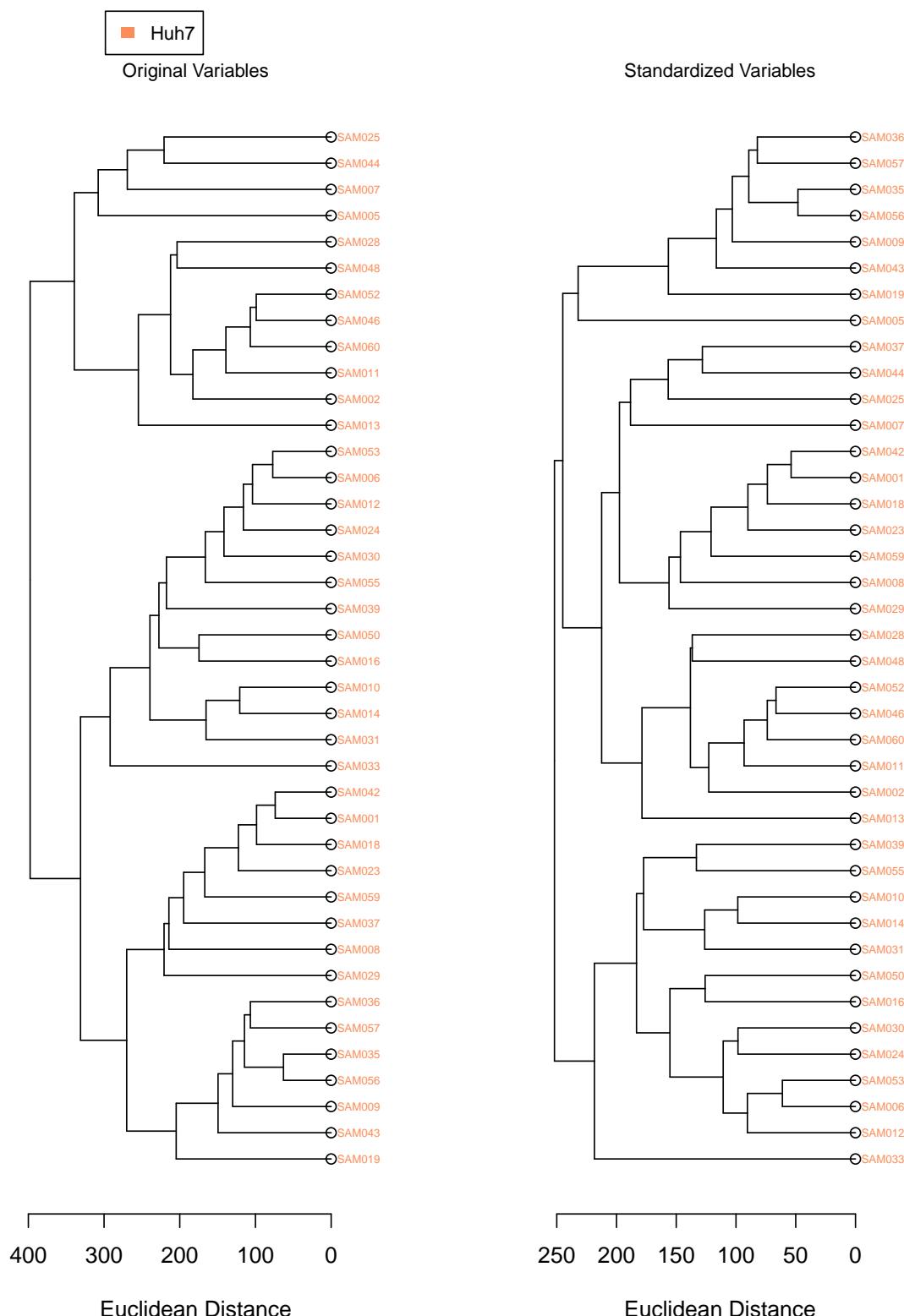


Figure 108: Hierarchical clustering plots (RP, Huh7). Euclidean distances hierarchically clustered using the complete linkage clustering algorithm. Outliers are marked by a blue circle next to the sample ID.

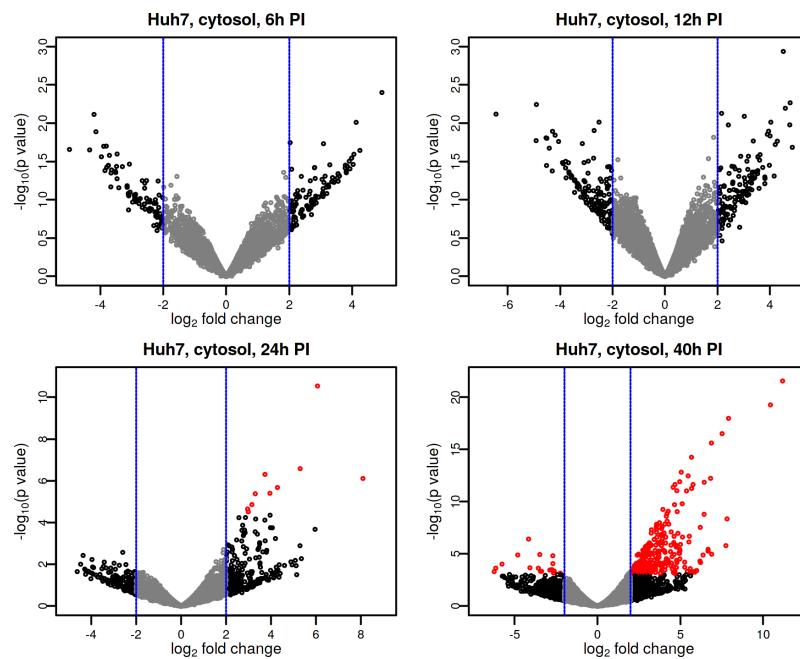


Figure 109: Volcano plots (RP, Huh7, cytosol). In red: DE genes; in grey: genes that did not pass the fold change cut offs; in black: genes that passed the fold change cut off but were not DE.

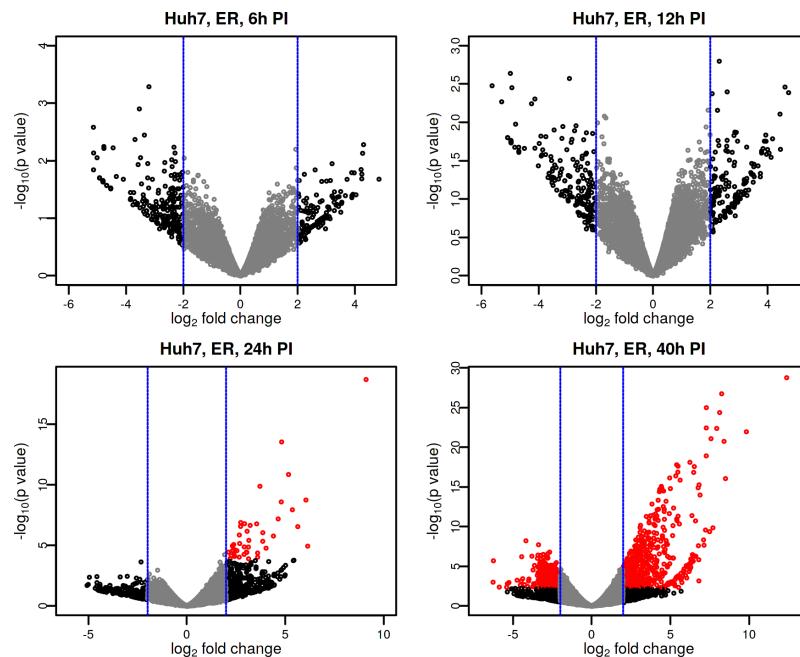


Figure 110: Volcano plots (RP, Huh7, ER). In red: DE genes; in grey: genes that did not pass the fold change cut offs; in black: genes that passed the fold change cut off but were not DE.

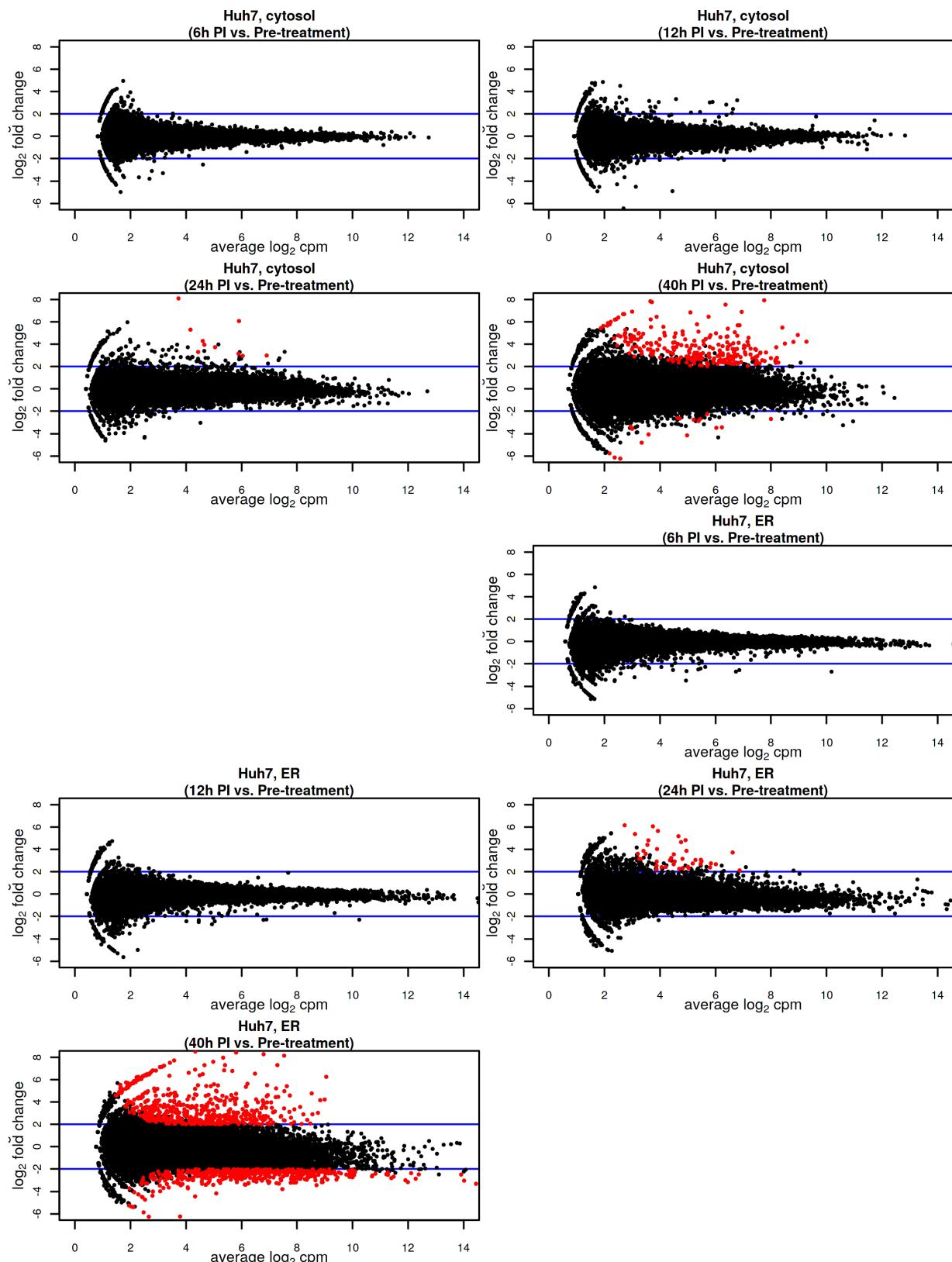


Figure 111: MA plot (RP, Huh7). Average \log_2 counts per million is displayed on the x-axis, the y-axis shows average \log_2 fold change from pre-treatment. Blue lines indicate the pre-specified minimum fold change cut off. DE genes are colored in red. Top optimize the visualization, the largest and smallest 0.1% of logFC observations are not included ($0.1\% < x < 99.9\%$).

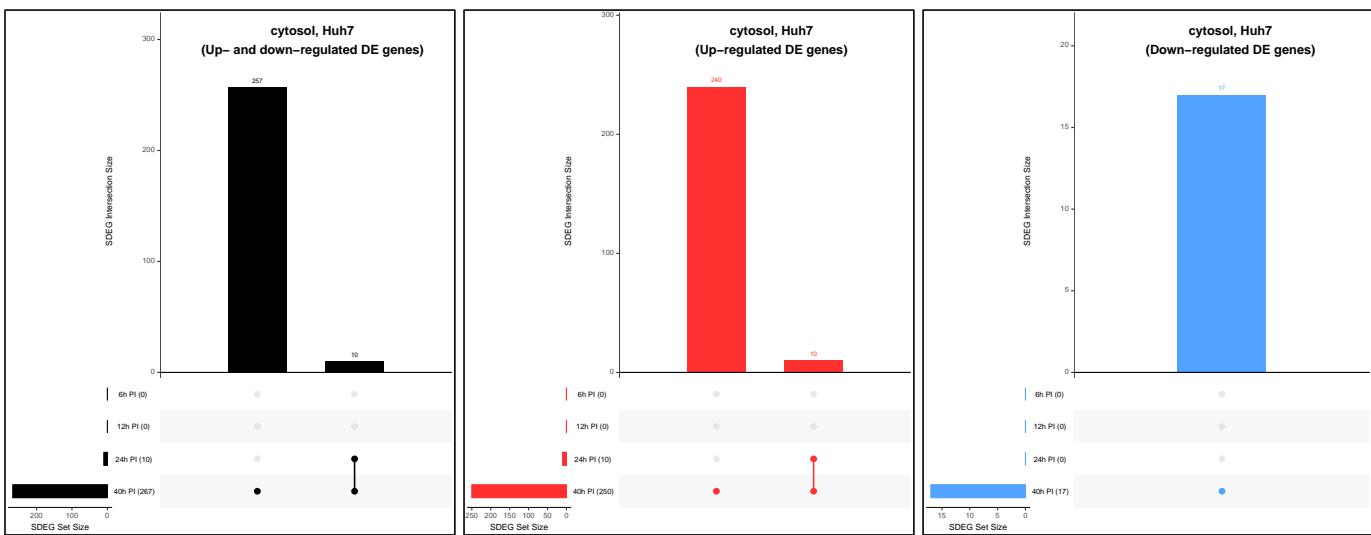


Figure 112: UpSet plots summarizing overlap in DE genes between post-treatment time points (RP, Huh7, cytosol). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

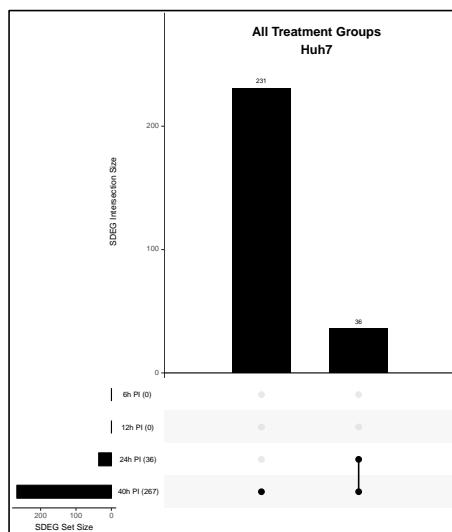


Figure 113: UpSet plots summarizing overlap in DE genes between post-treatment time points (RP, Huh7, All treatment groups). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

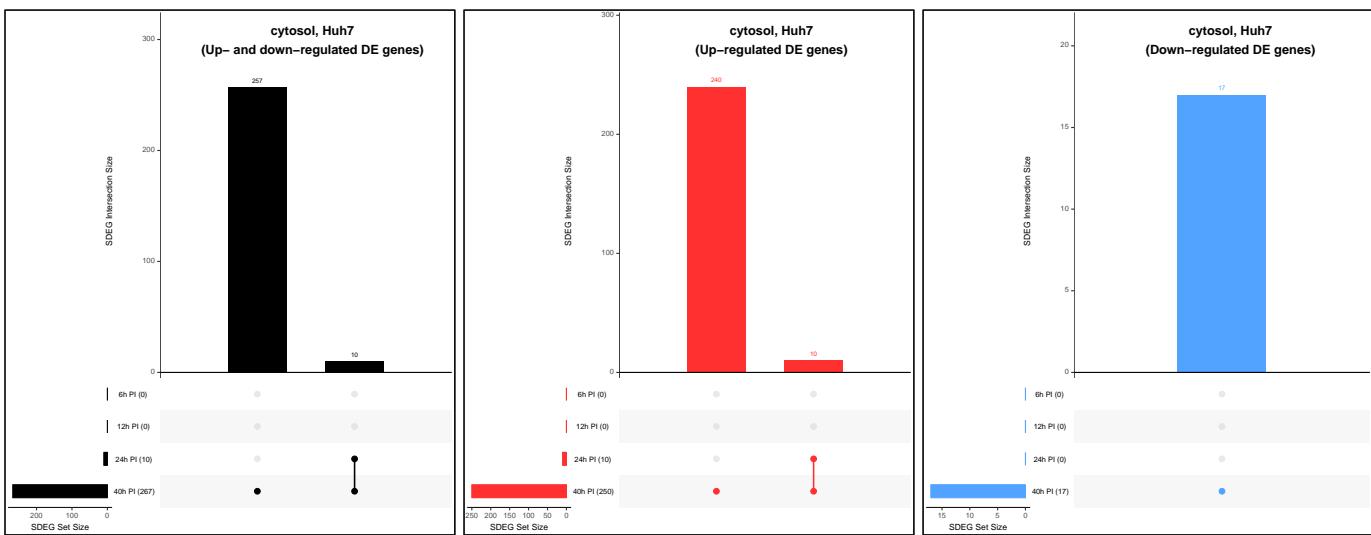


Figure 114: UpSet plots summarizing overlap in DE genes between post-treatment time points (RP, Huh7, cytosol). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

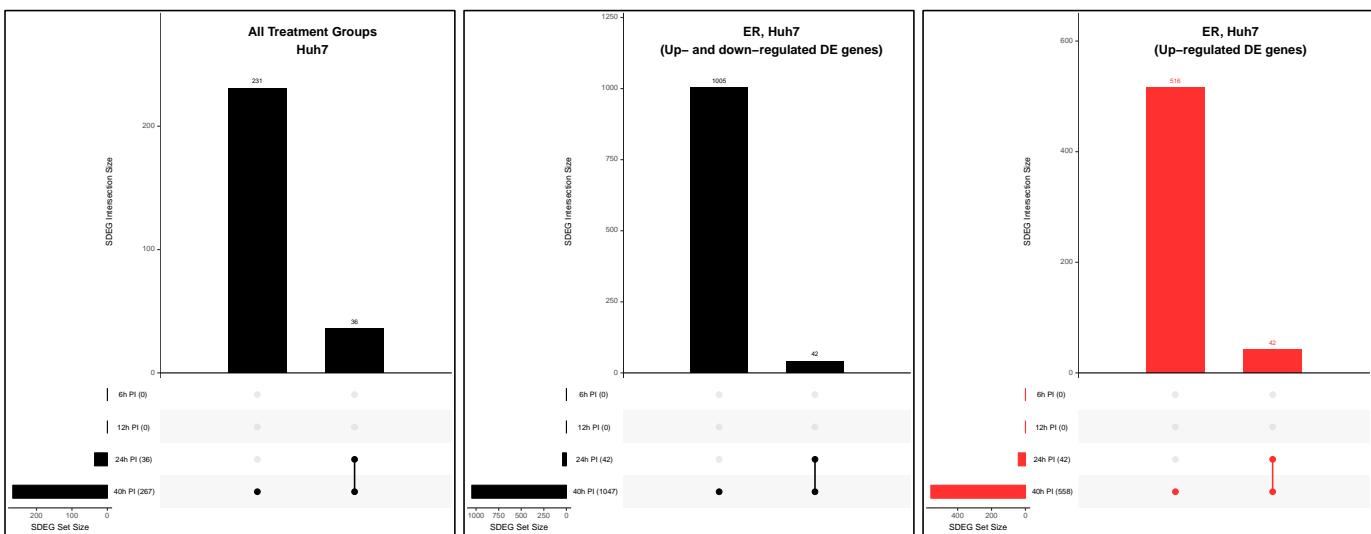


Figure 115: UpSet plots summarizing overlap in DE genes between post-treatment time points (RP, Huh7, All treatment groups). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

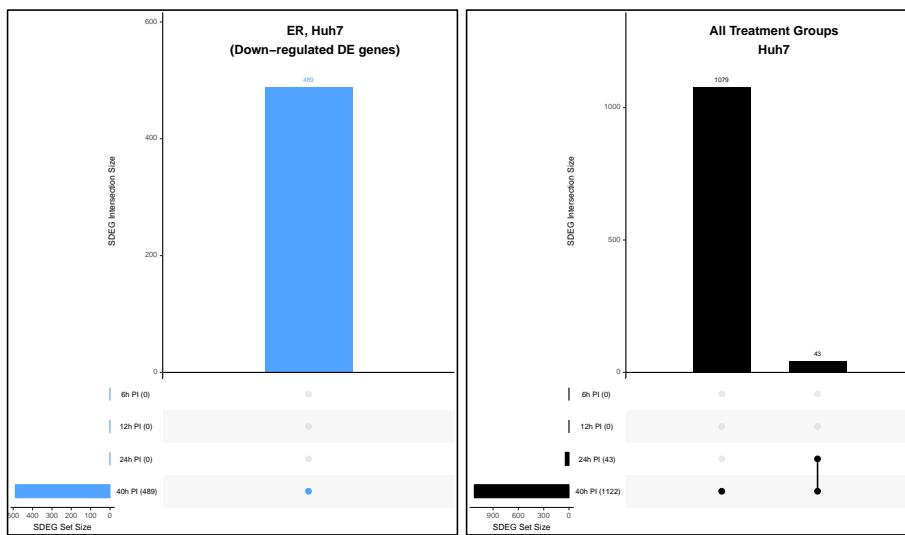


Figure 116: UpSet plots summarizing overlap in DE genes between post-treatment time points (RP, Huh7, cytosol). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

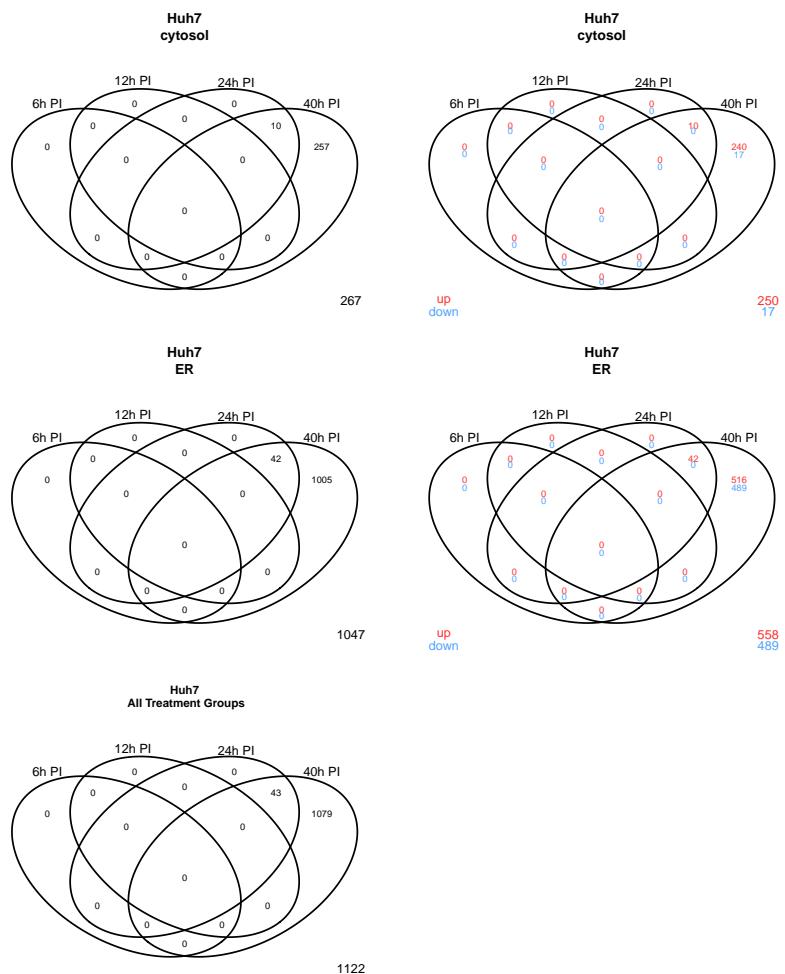


Figure 117: Venn diagrams summarizing overlap in DE genes between post-treatment time points (RP, Huh7). In red: up-regulated compared to pre-treatment, in blue: down-regulated compared to pre-treatment.

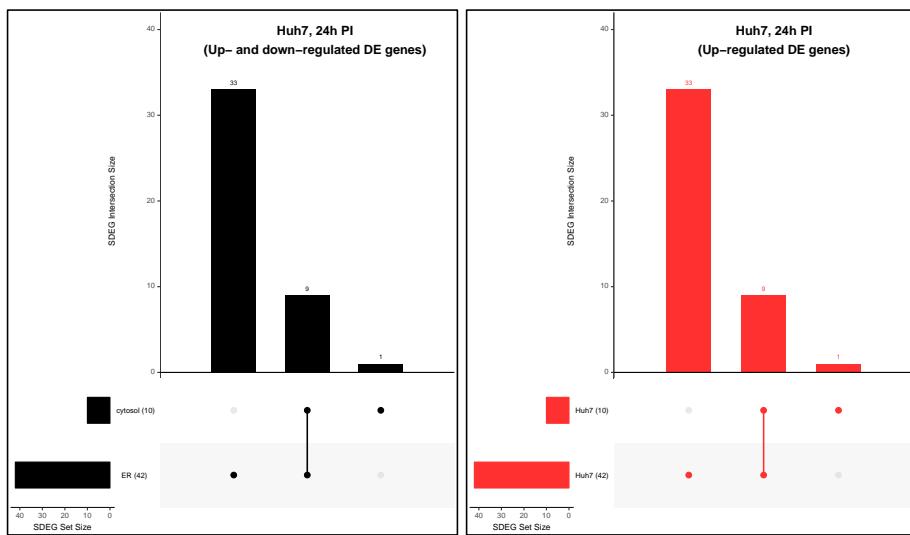


Figure 118: UpSet plots summarizing overlap in DE genes between treatment groups (RP, Huh7, 24h PI). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

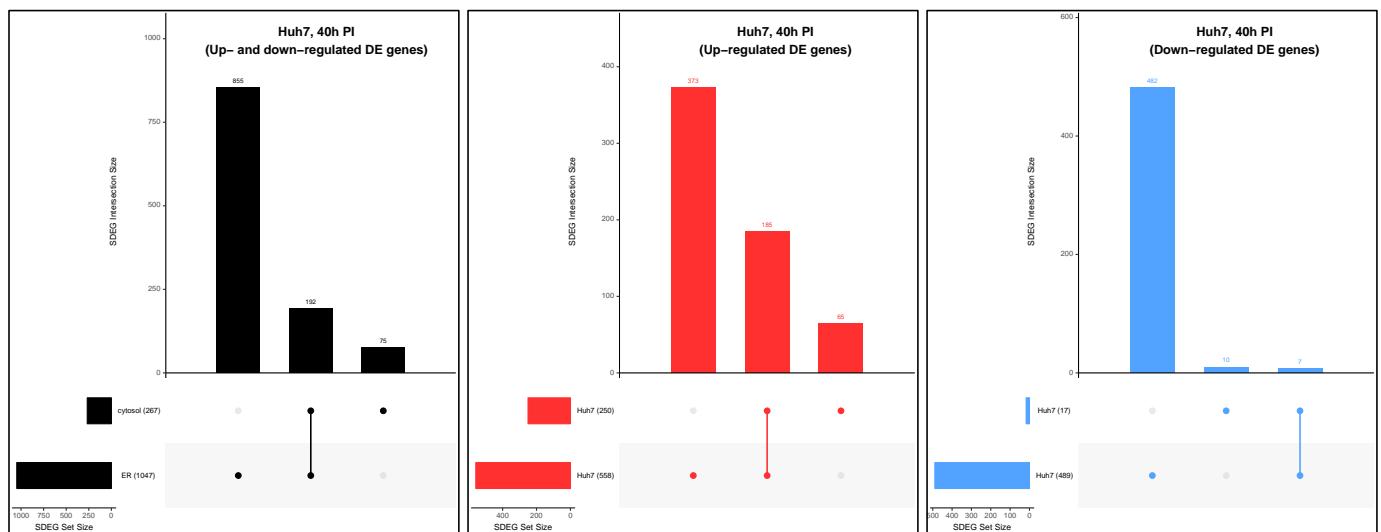


Figure 119: UpSet plots summarizing overlap in DE genes between treatment groups (RP, Huh7, 40h PI). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

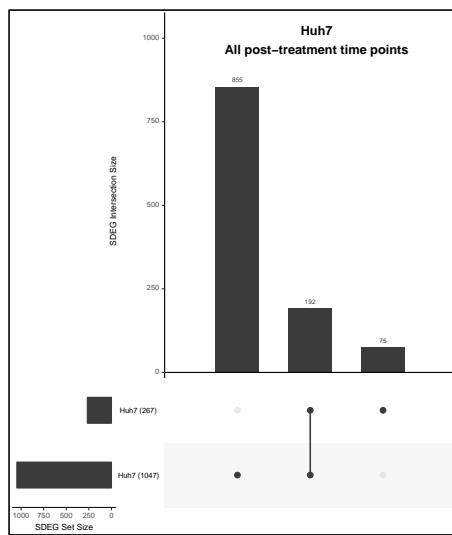


Figure 120: UpSet plots summarizing overlap in DE genes between treatment groups (RP, Huh7, All post-treatment time points). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

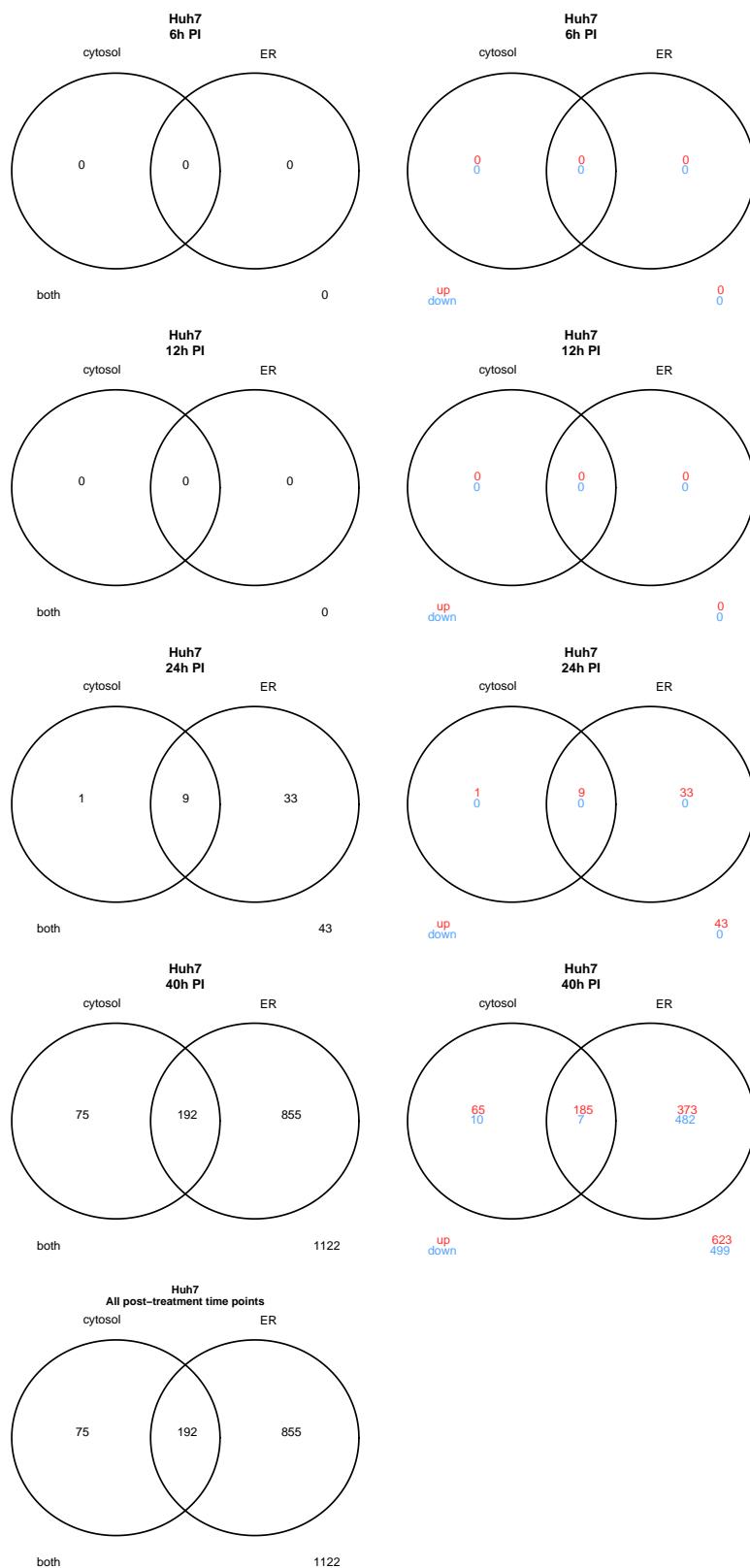


Figure 121: Venn diagrams summarizing overlap in DE genes between treatment groups (RP, Huh7). In red: up-regulated from pre-treatment, in blue: down-regulated from pre-treatment.

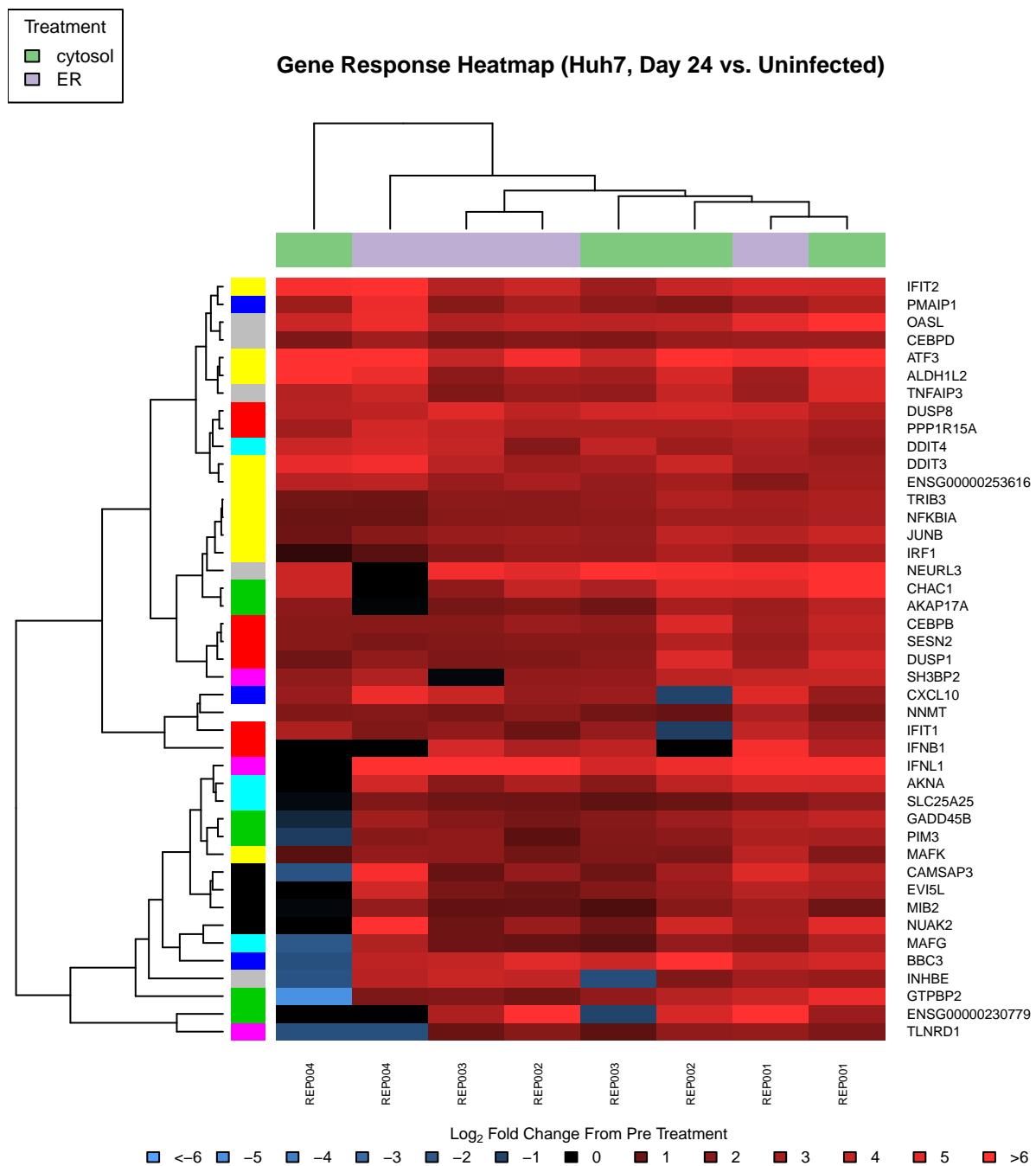


Figure 122: Heatmap of \log_2 fold change from pre-treatment (RP, Huh7, 24h PI). Rows represent DE genes across treatment types, columns represent samples. In red: up regulated compared to pre-treatment; in green: down-regulated compared to pre-treatment. Dendograms were obtained using complete linkage clustering of uncentered pairwise Pearson correlation distances for \log_2 fold changes. Samples are color-coded by treatment group (see row below sample dendrogram).

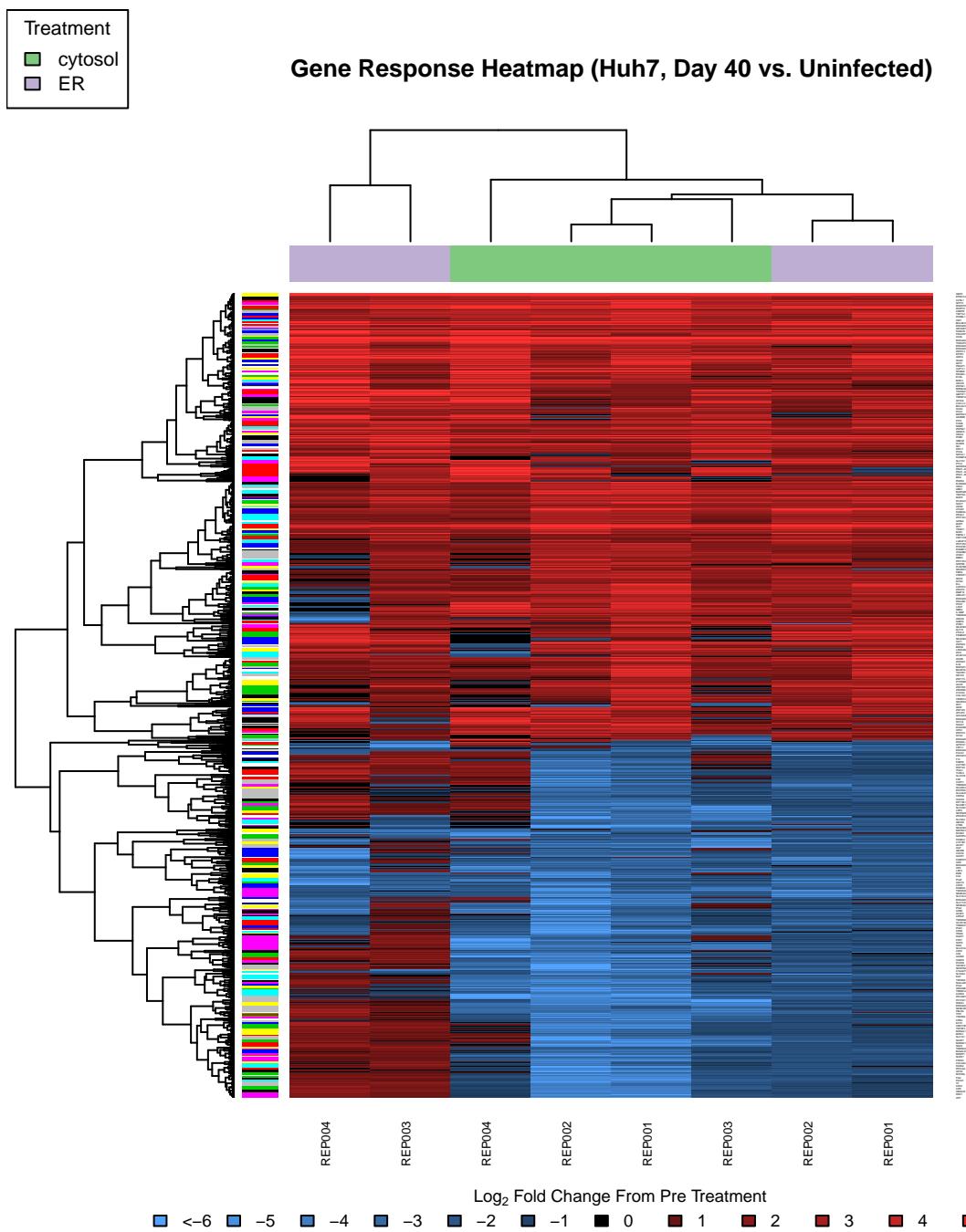


Figure 123: Heatmap of \log_2 fold change from pre-treatment (RP, Huh7, 40h PI). Rows represent DE genes across treatment types, columns represent samples. In red: up regulated compared to pre-treatment; in green: down-regulated compared to pre-treatment. Dendograms were obtained using complete linkage clustering of uncentered pairwise Pearson correlation distances for \log_2 fold changes. Samples are color-coded by treatment group (see row below sample dendrogram).

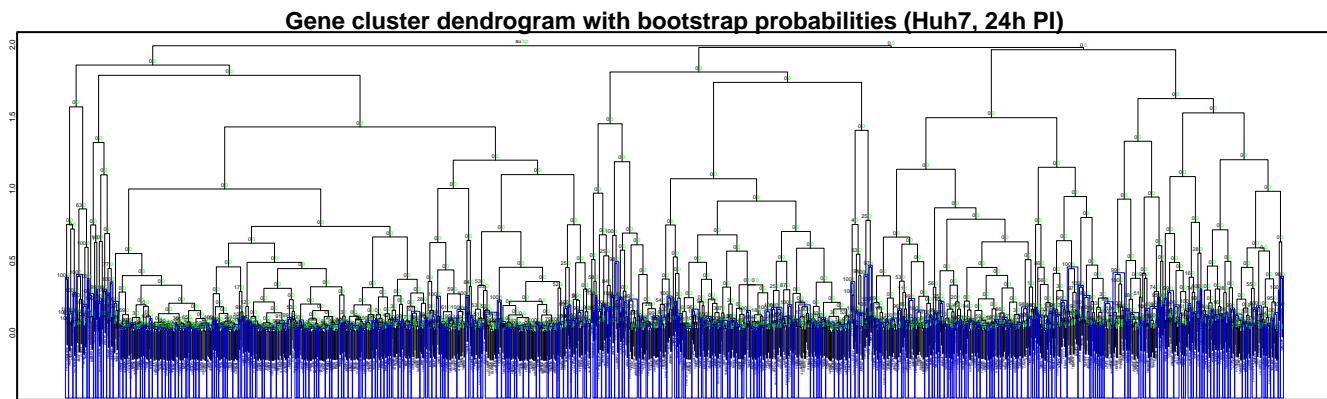


Figure 124: Co-expressed gene cluster dendrogram with bootstrap probabilities (RP, Huh7, 24h PI). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

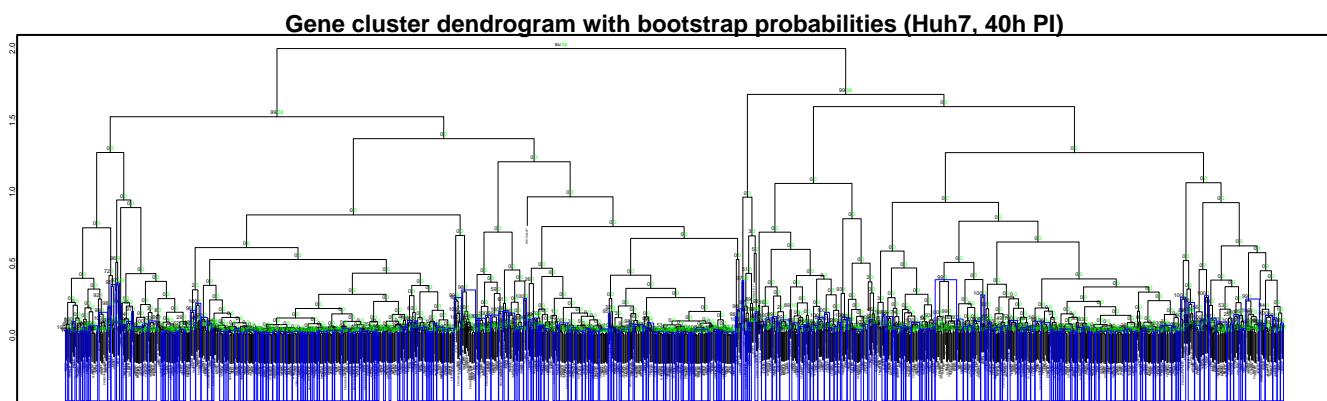


Figure 125: Co-expressed gene cluster dendrogram with bootstrap probabilities (RP, Huh7, 40h PI). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

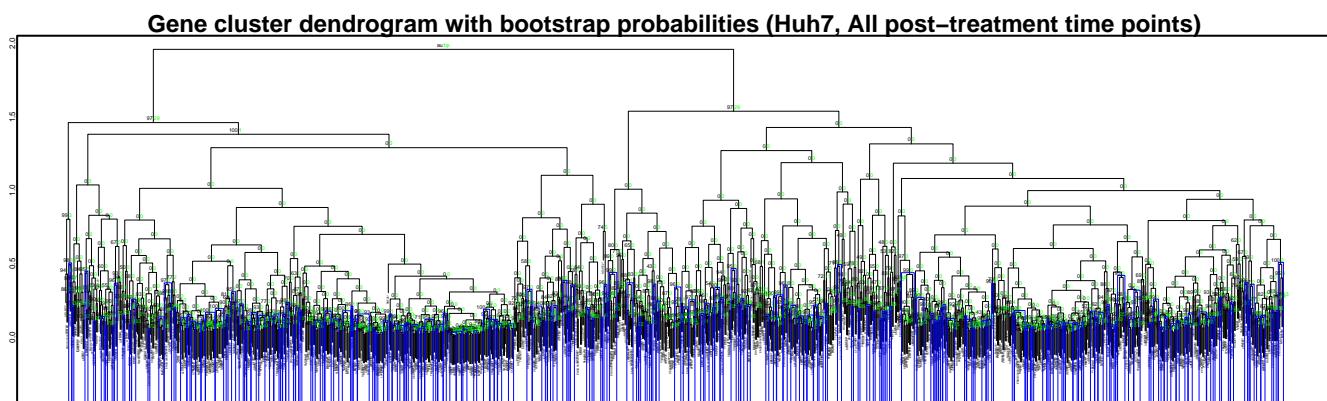


Figure 126: Co-expressed gene cluster dendrogram with bootstrap probabilities (RP, Huh7, All post-treatment time points). The y axis shows the distance at which clusters were formed by the complete linkage clustering algorithm based on uncentered Pearson correlation distance between \log_2 fold changes. Multiscale bootstrap probabilities are shown at each branch intersection. Significant clusters are highlighted in blue. Asterisks indicate genes that were significantly expressed at a certain day.

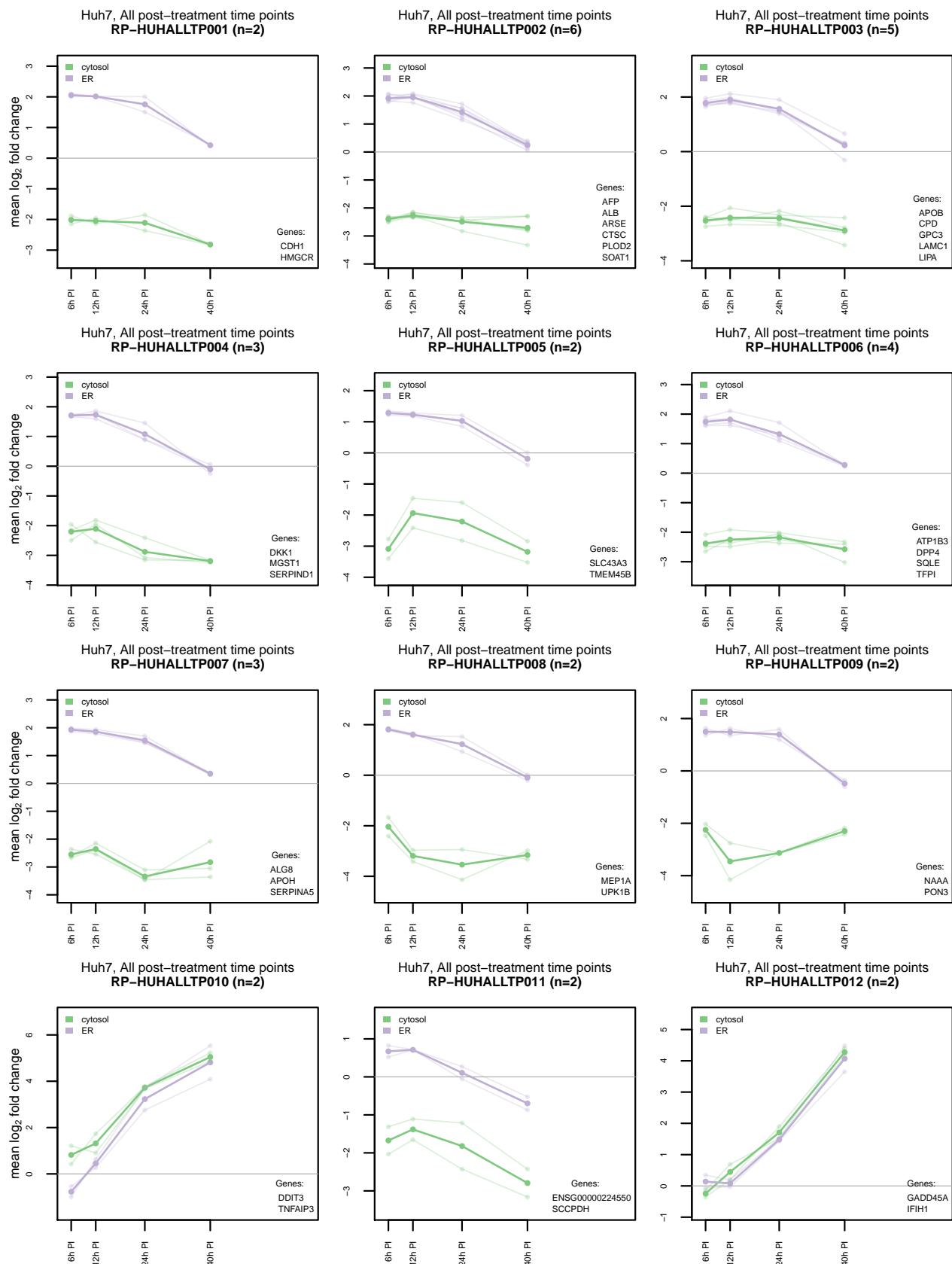


Figure 127: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 1 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

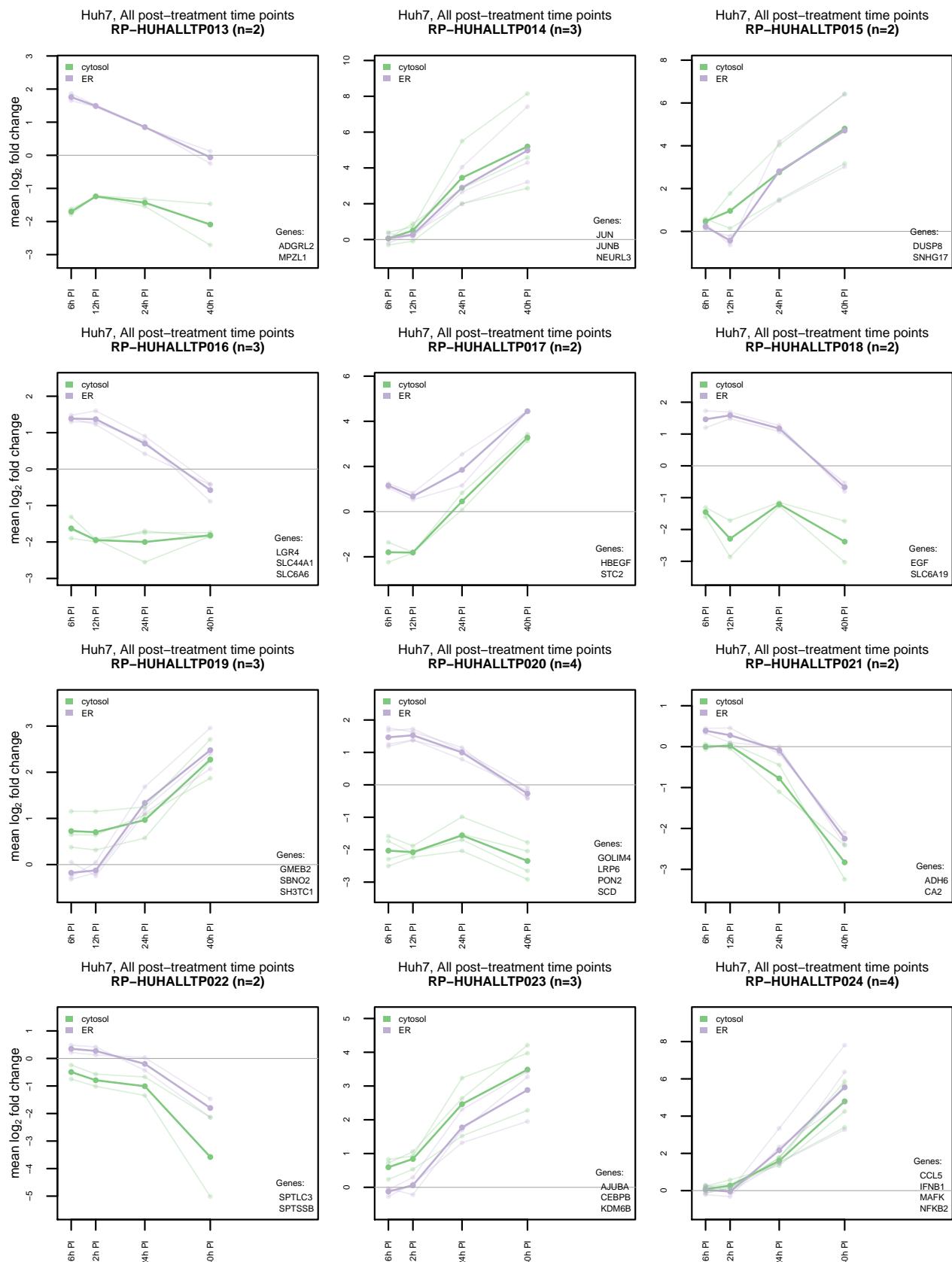


Figure 128: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 2 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

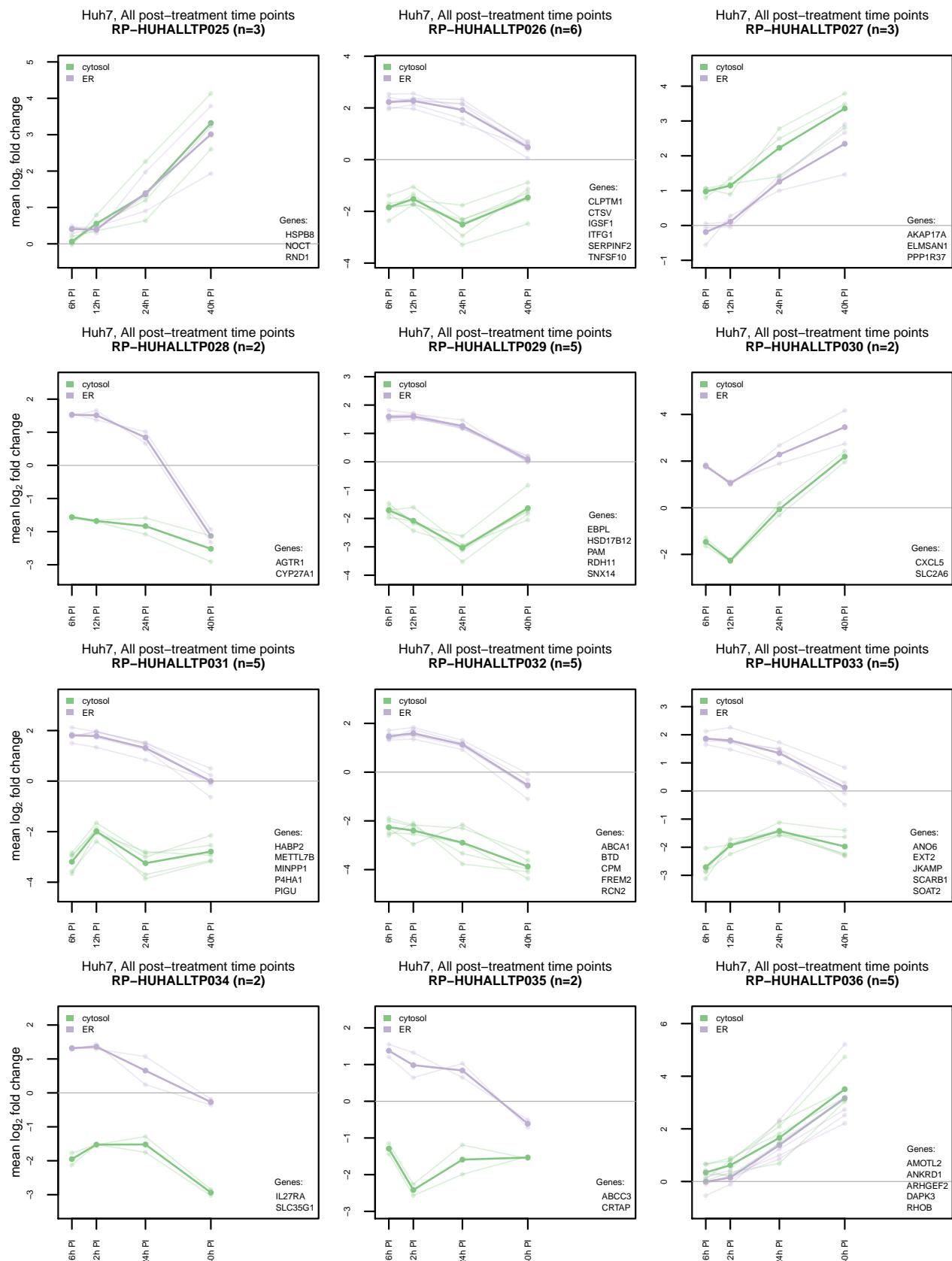


Figure 129: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 3 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

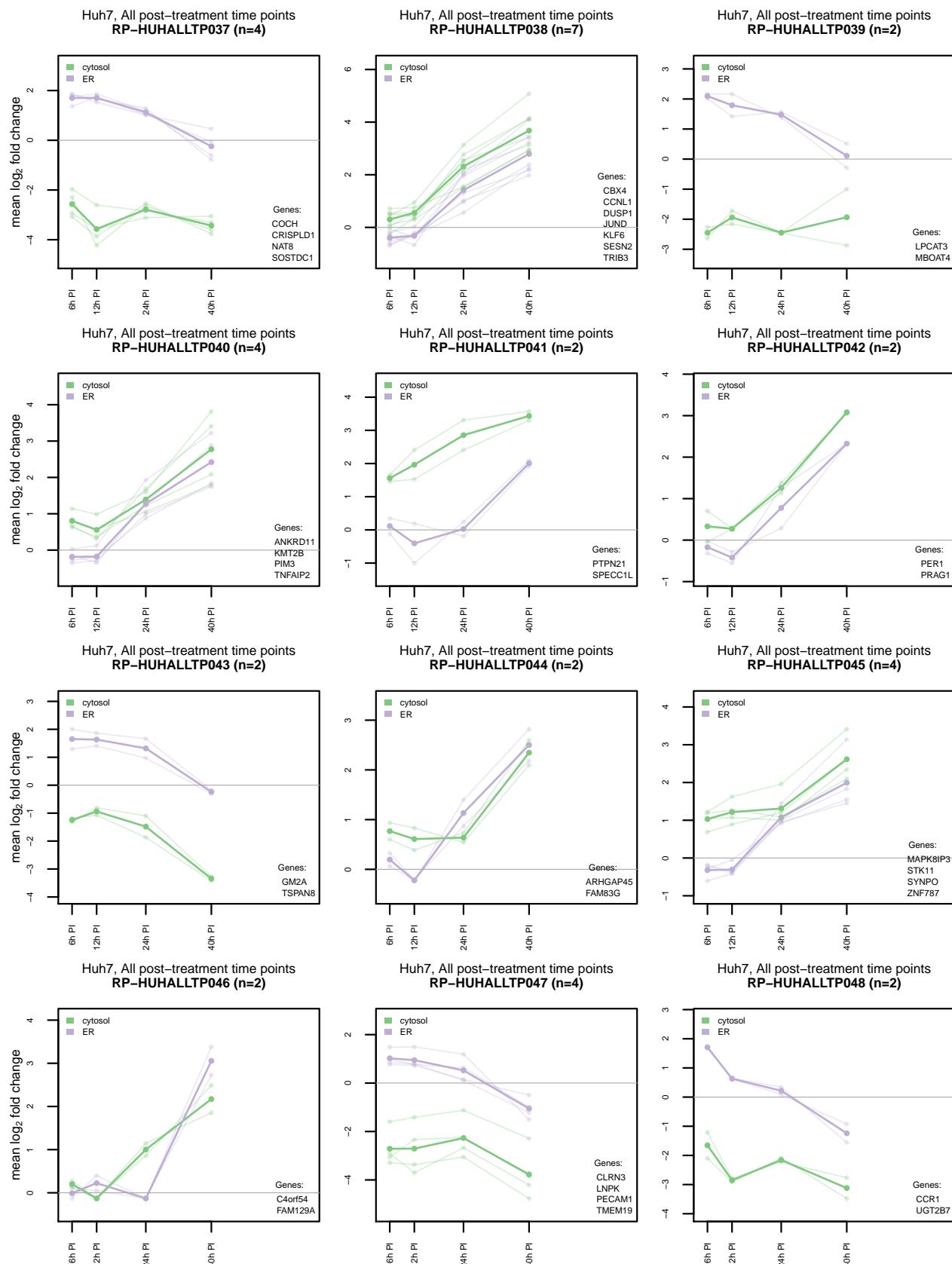


Figure 130: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 4 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

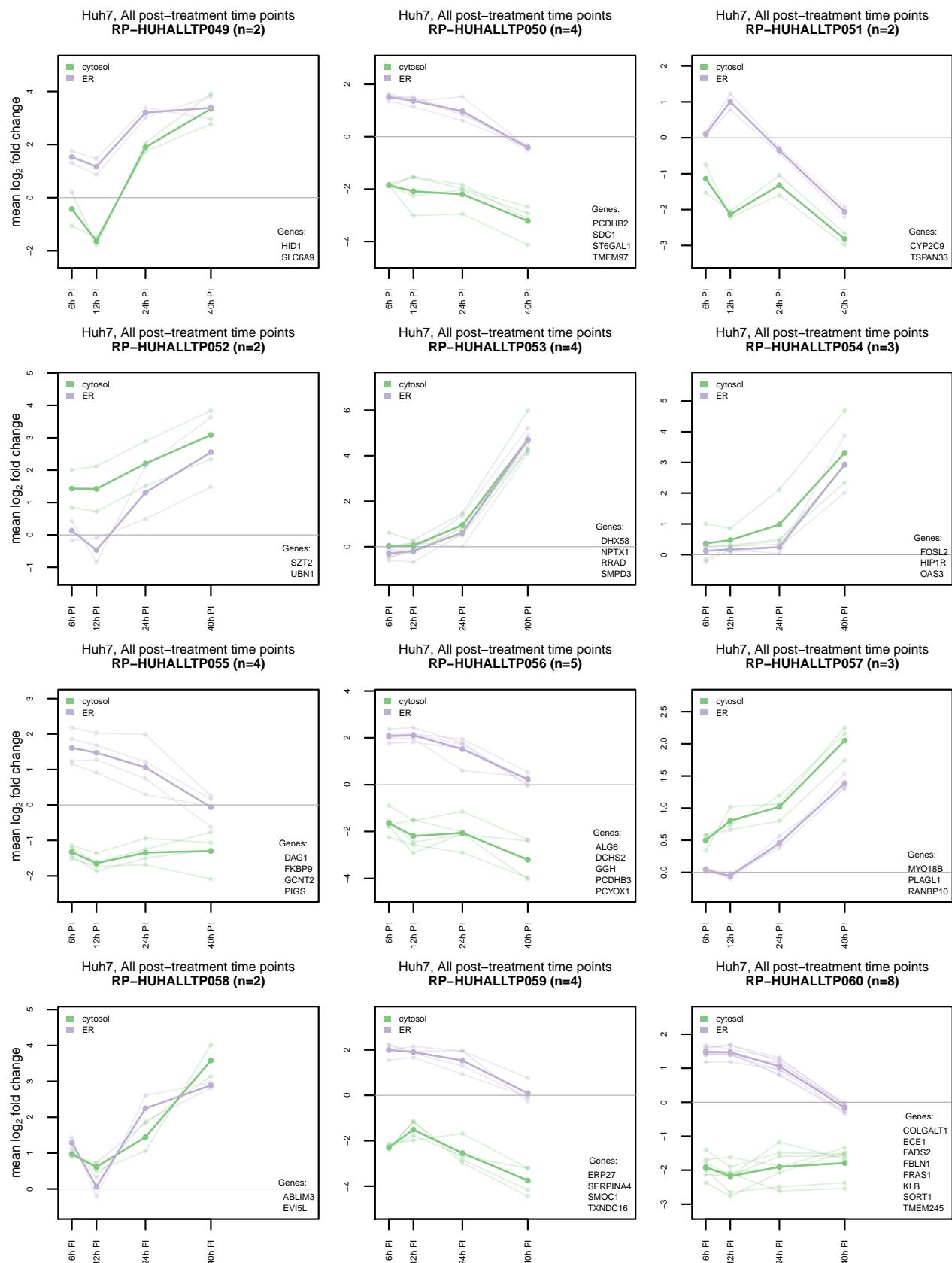


Figure 131: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 5 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

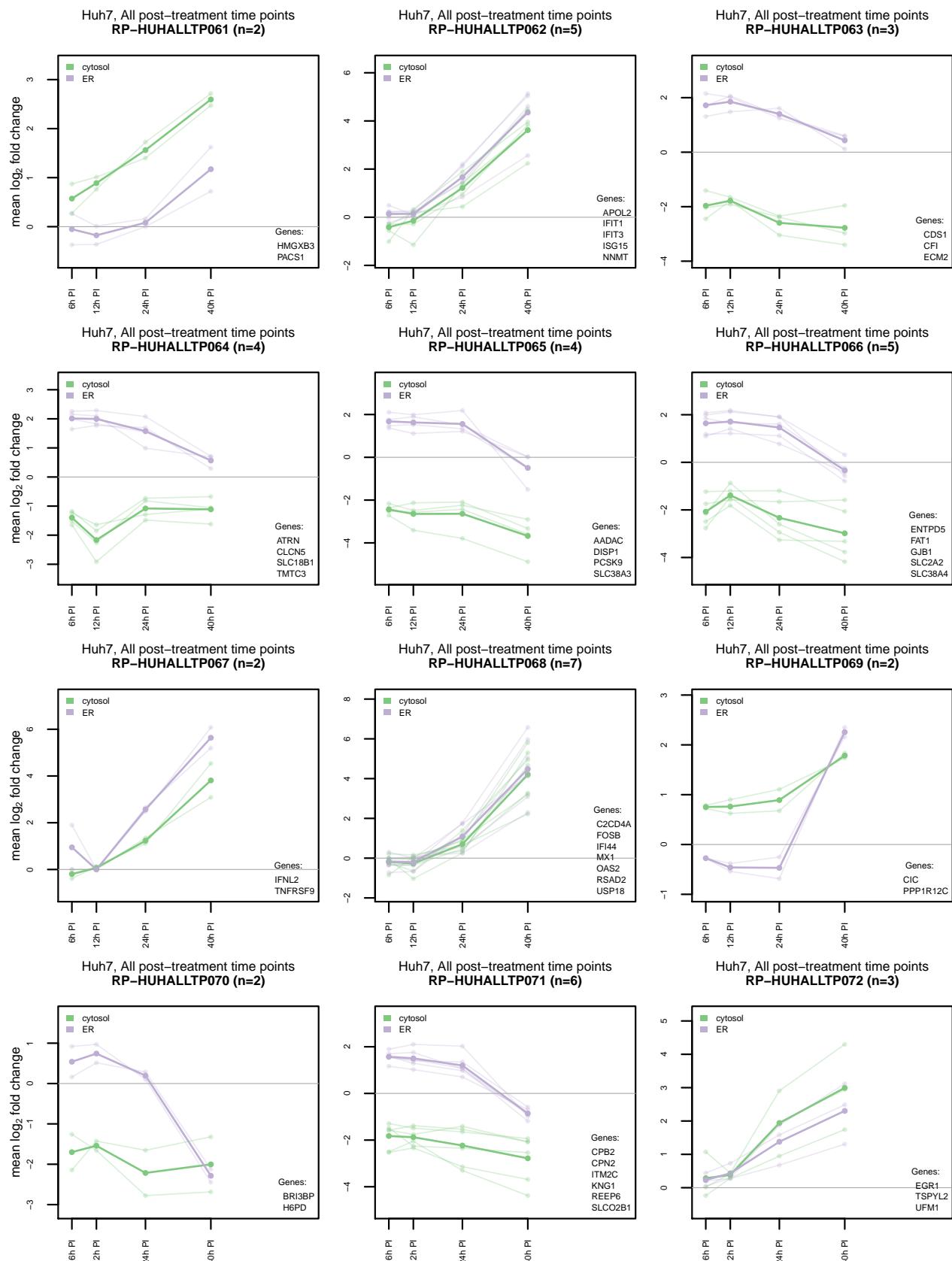


Figure 132: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 6 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

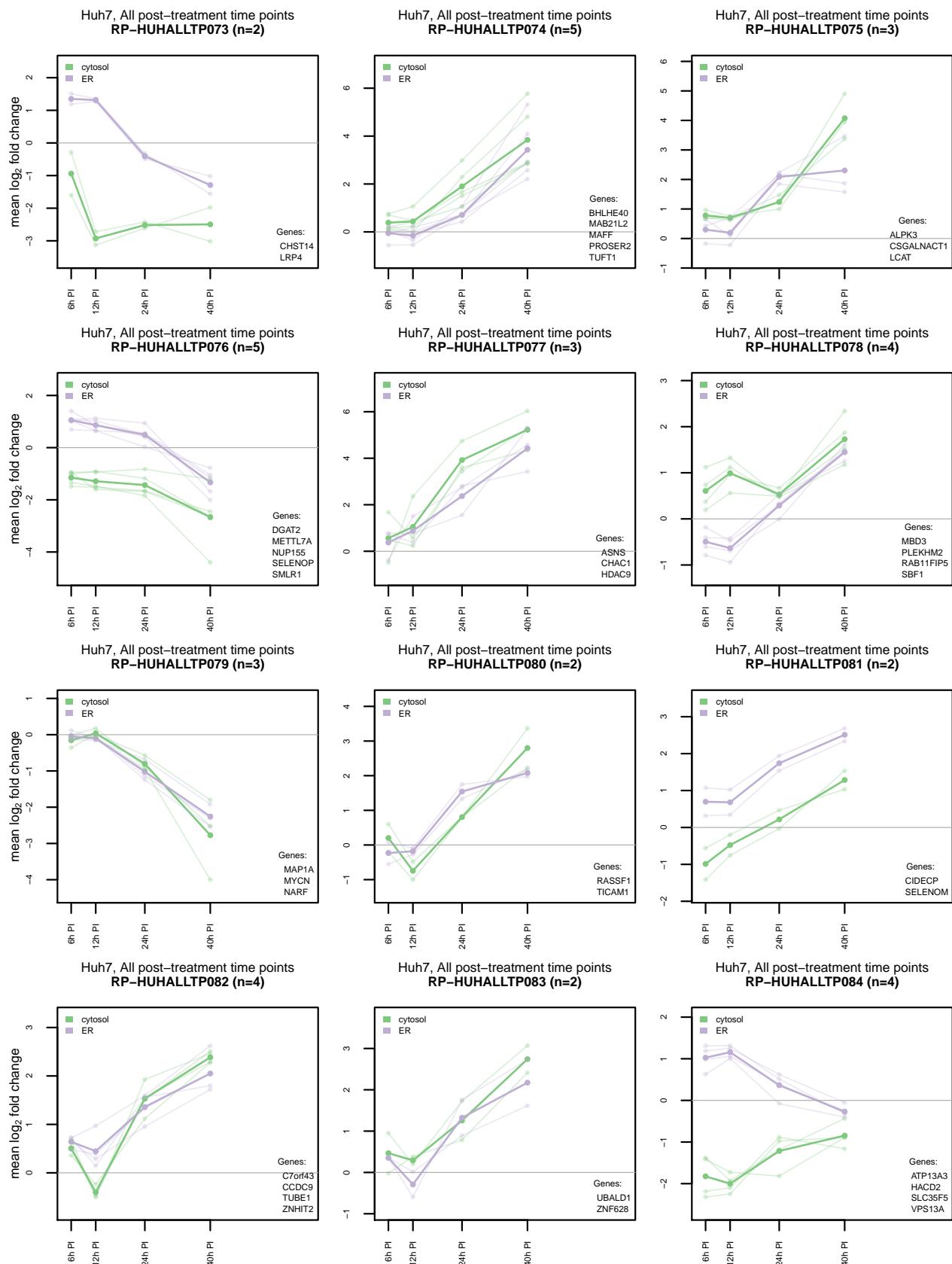


Figure 133: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 7 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

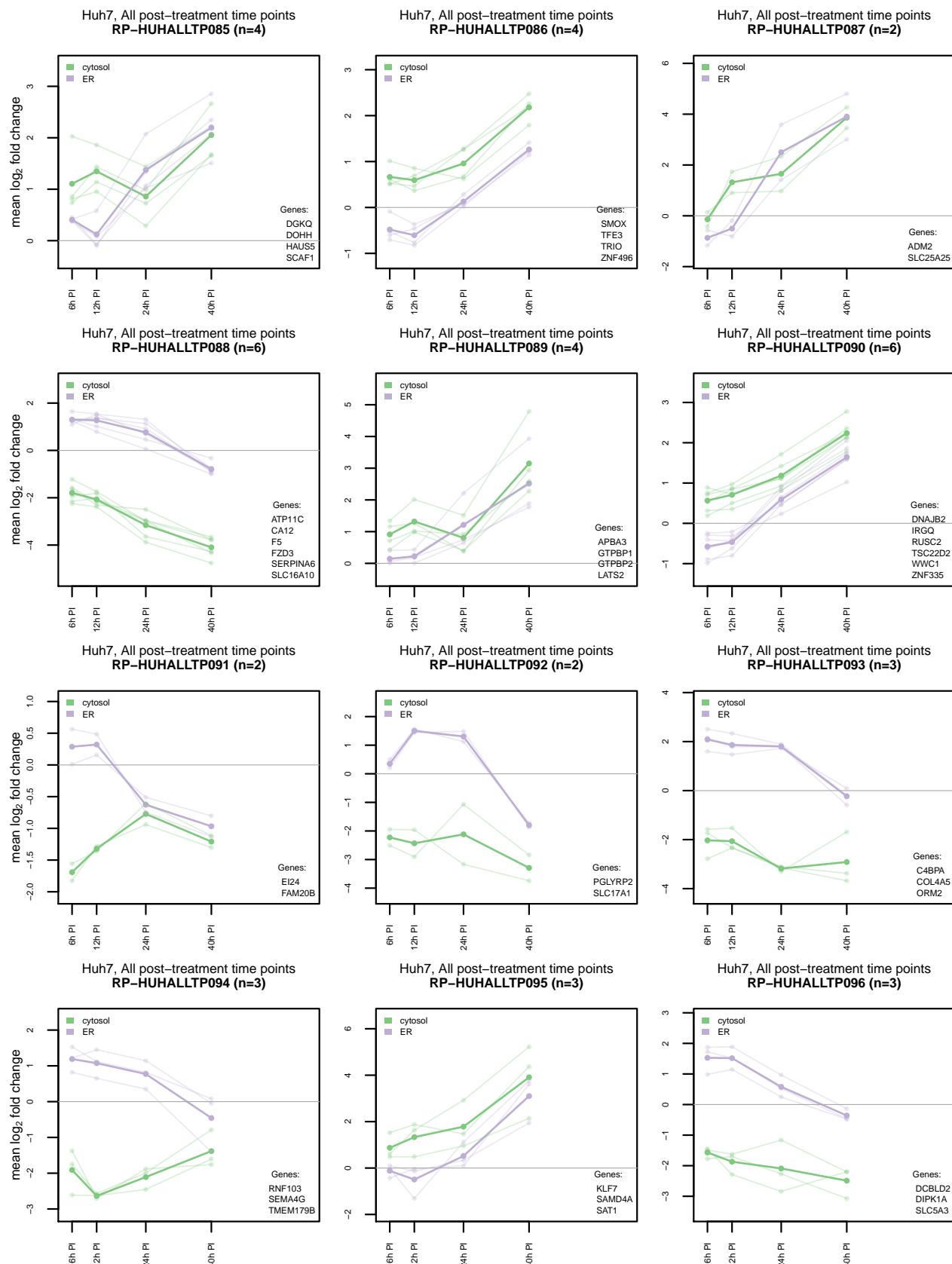


Figure 134: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 8 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

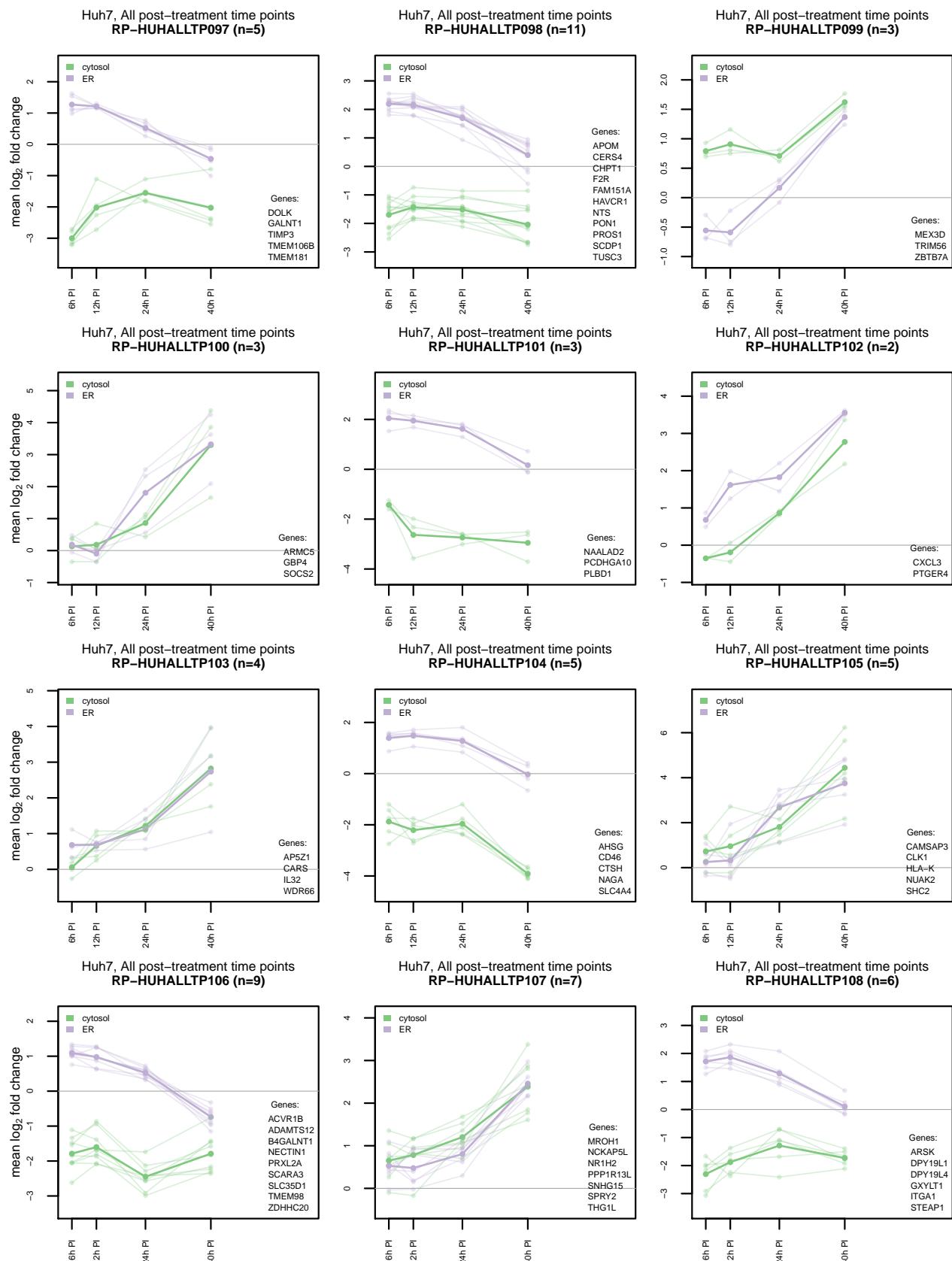


Figure 135: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 9 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

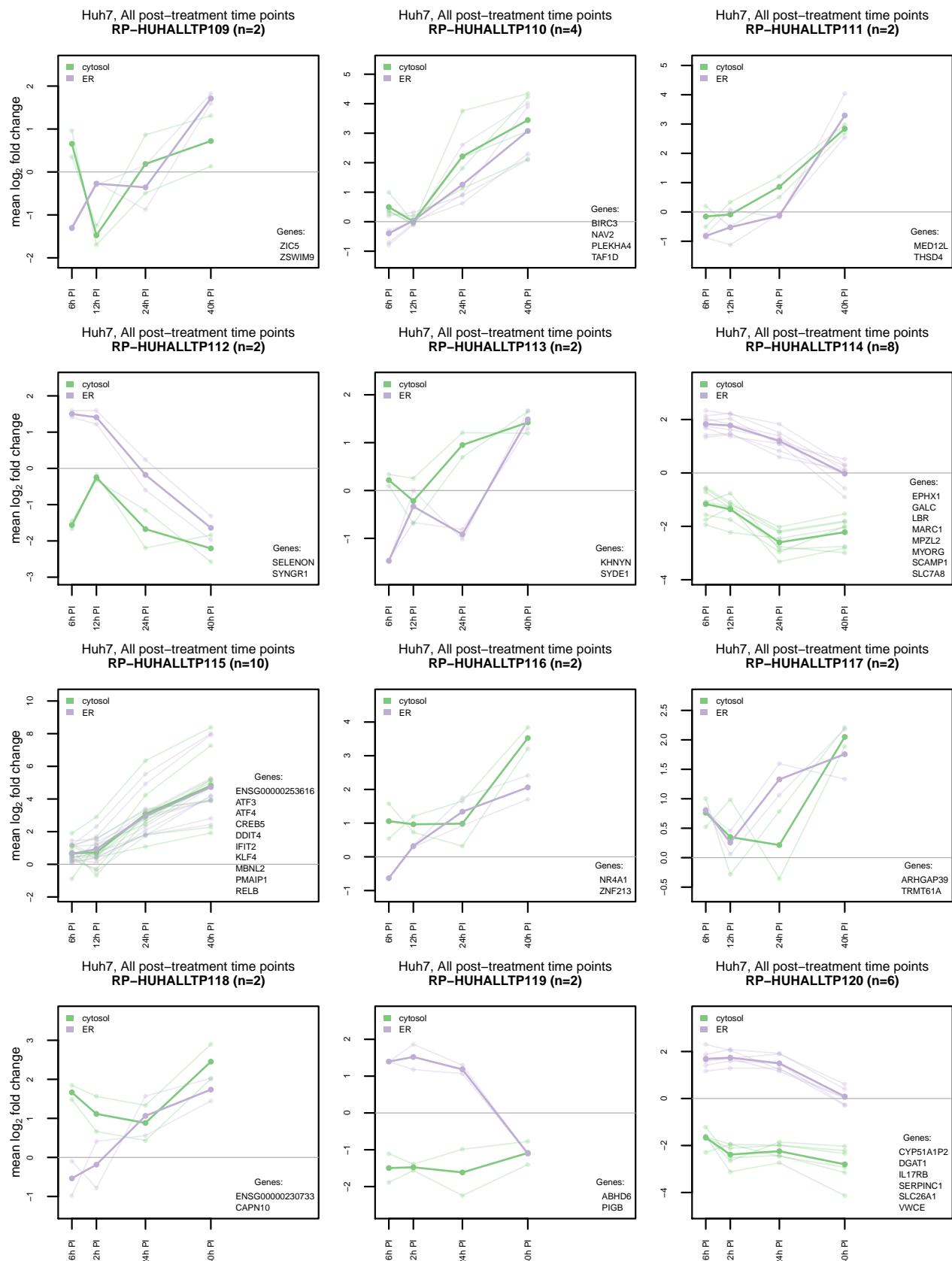


Figure 136: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 10 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

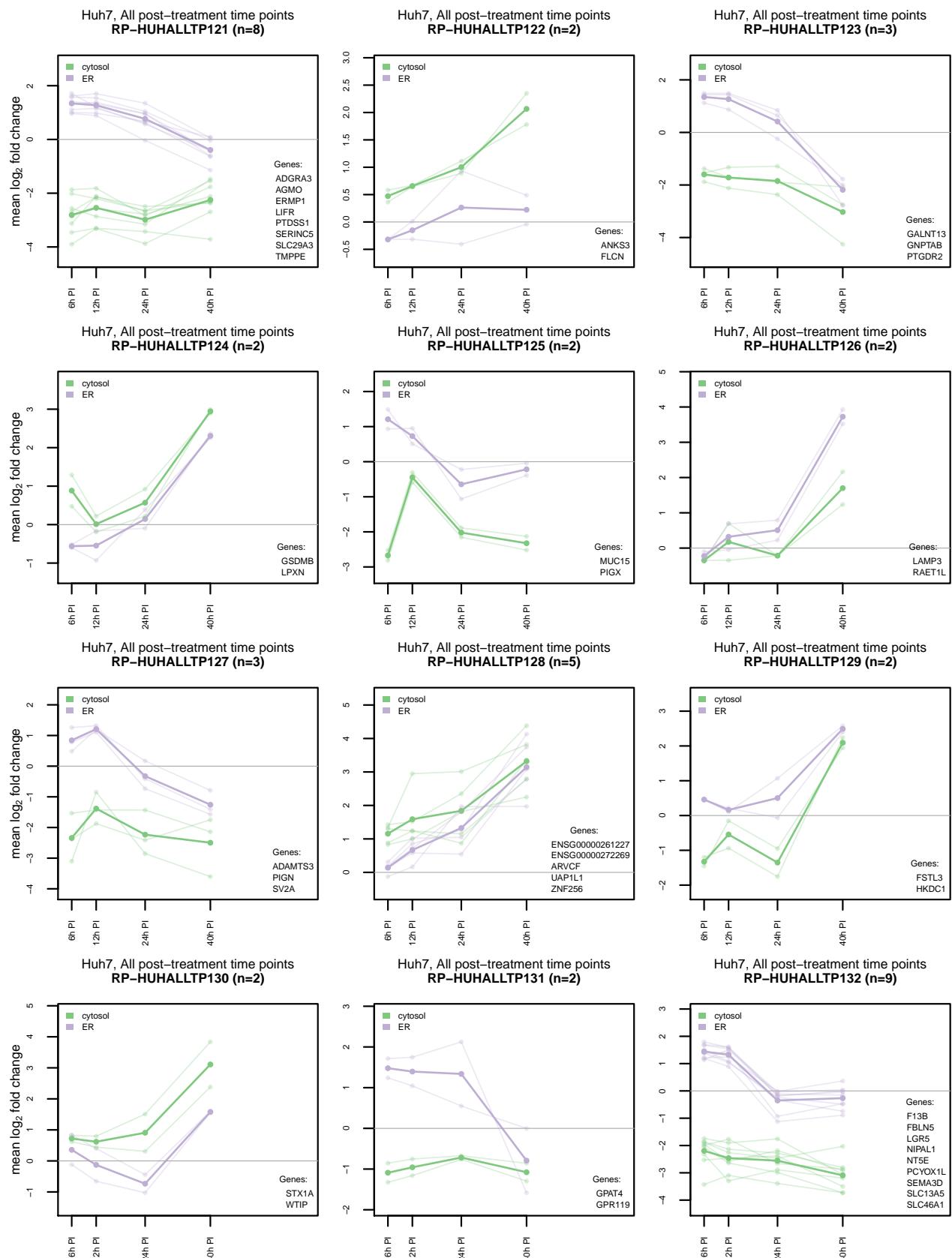


Figure 137: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 11 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

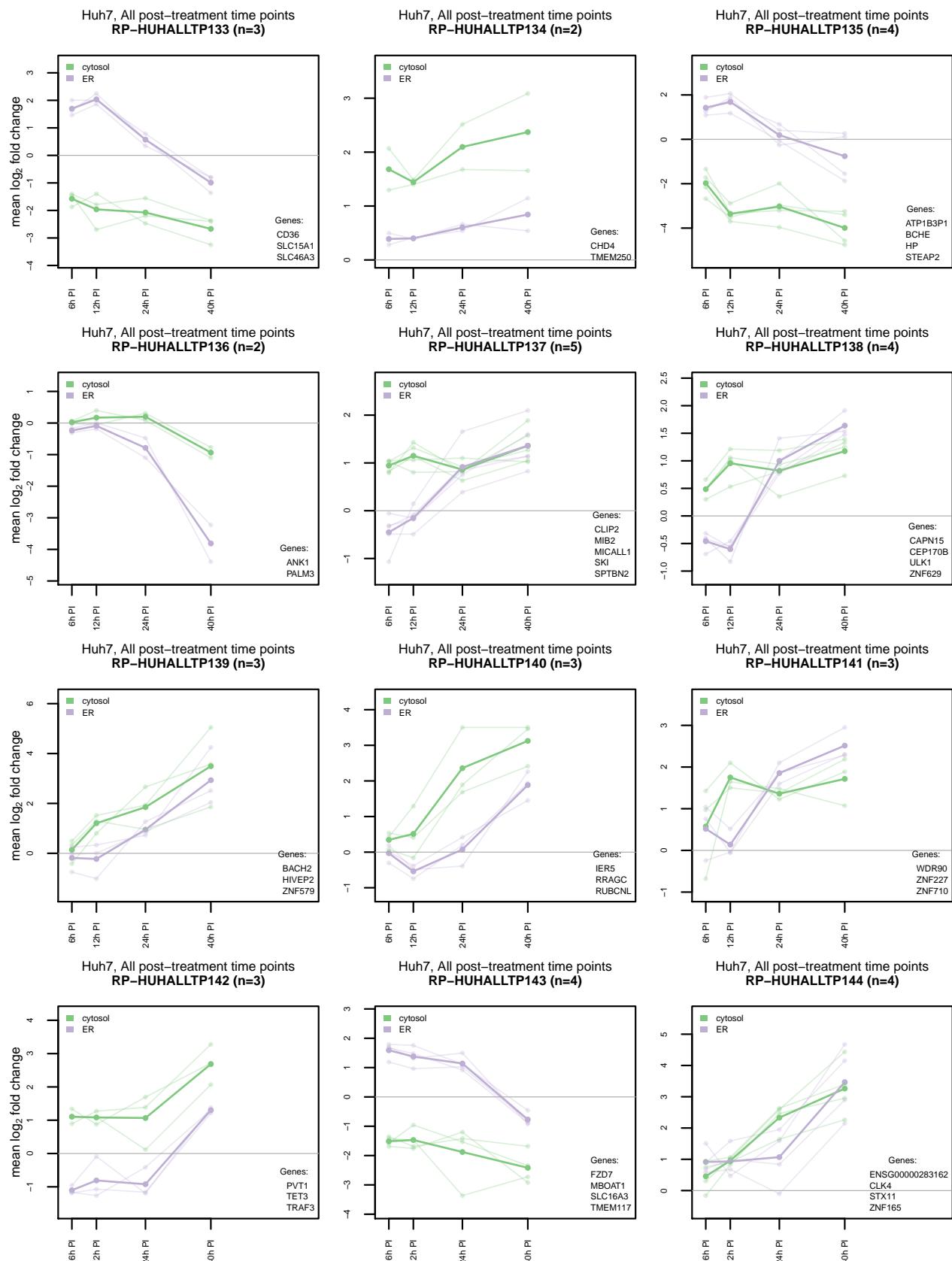


Figure 138: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 12 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

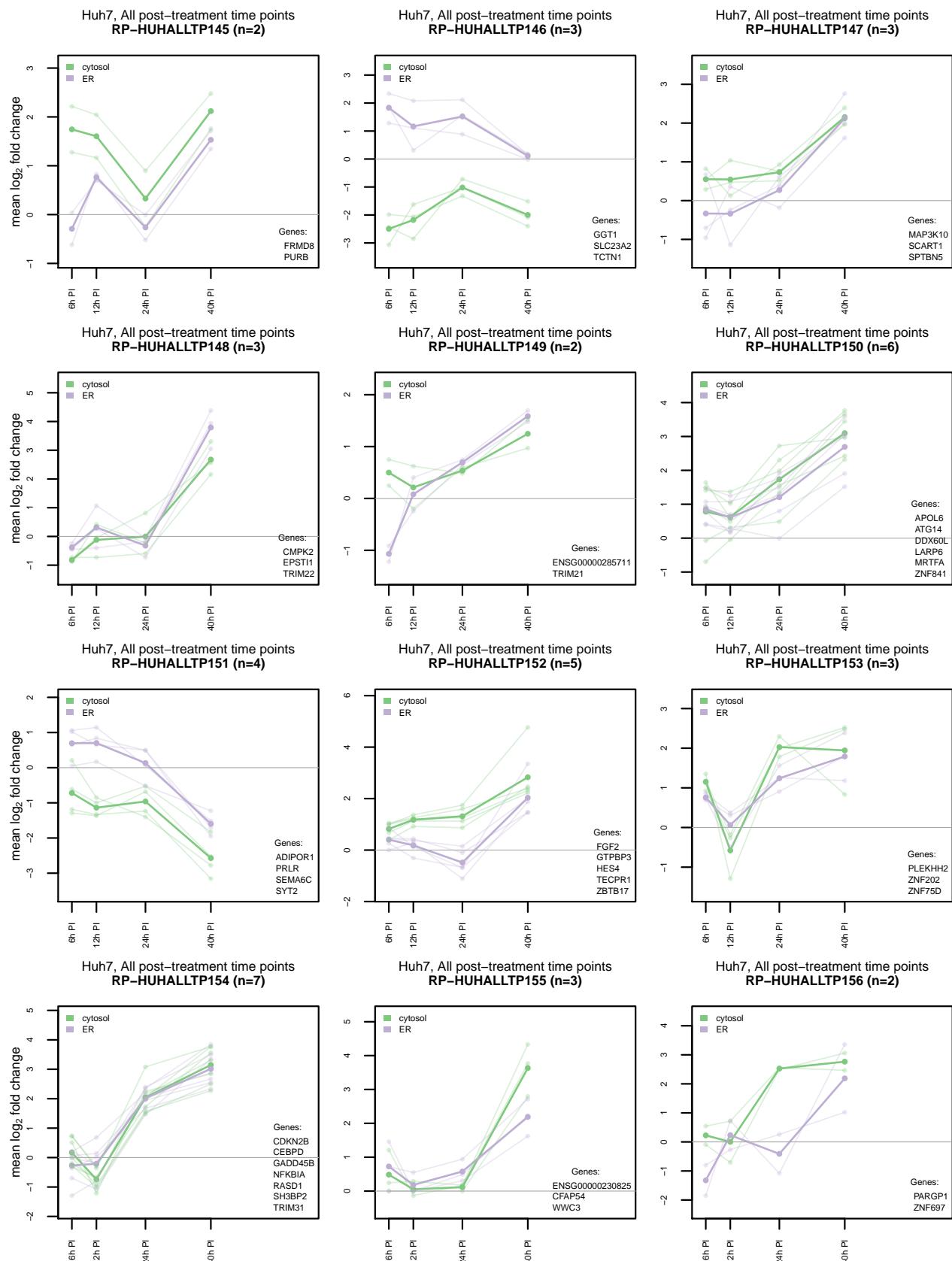


Figure 139: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 13 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

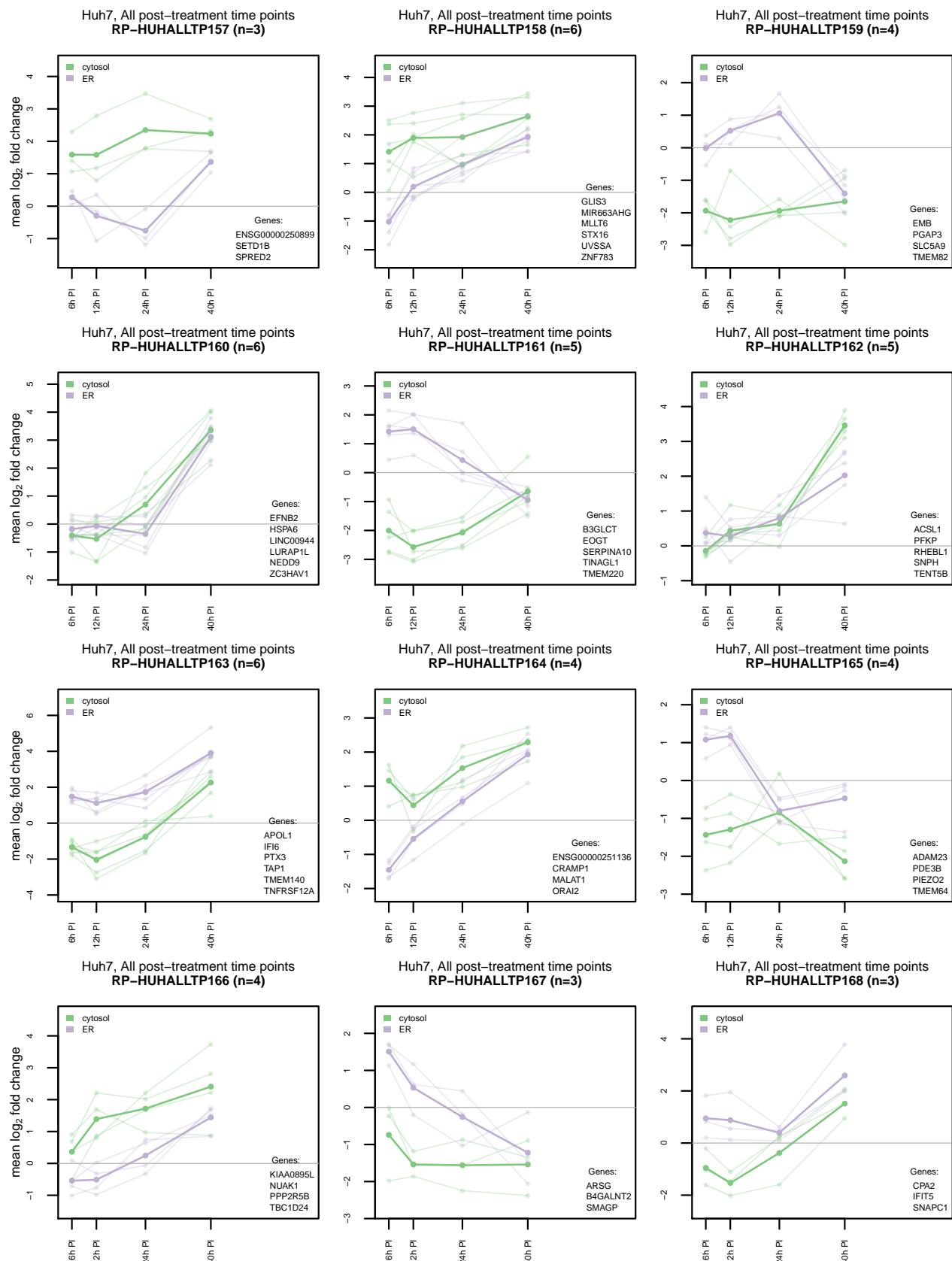


Figure 140: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 14 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

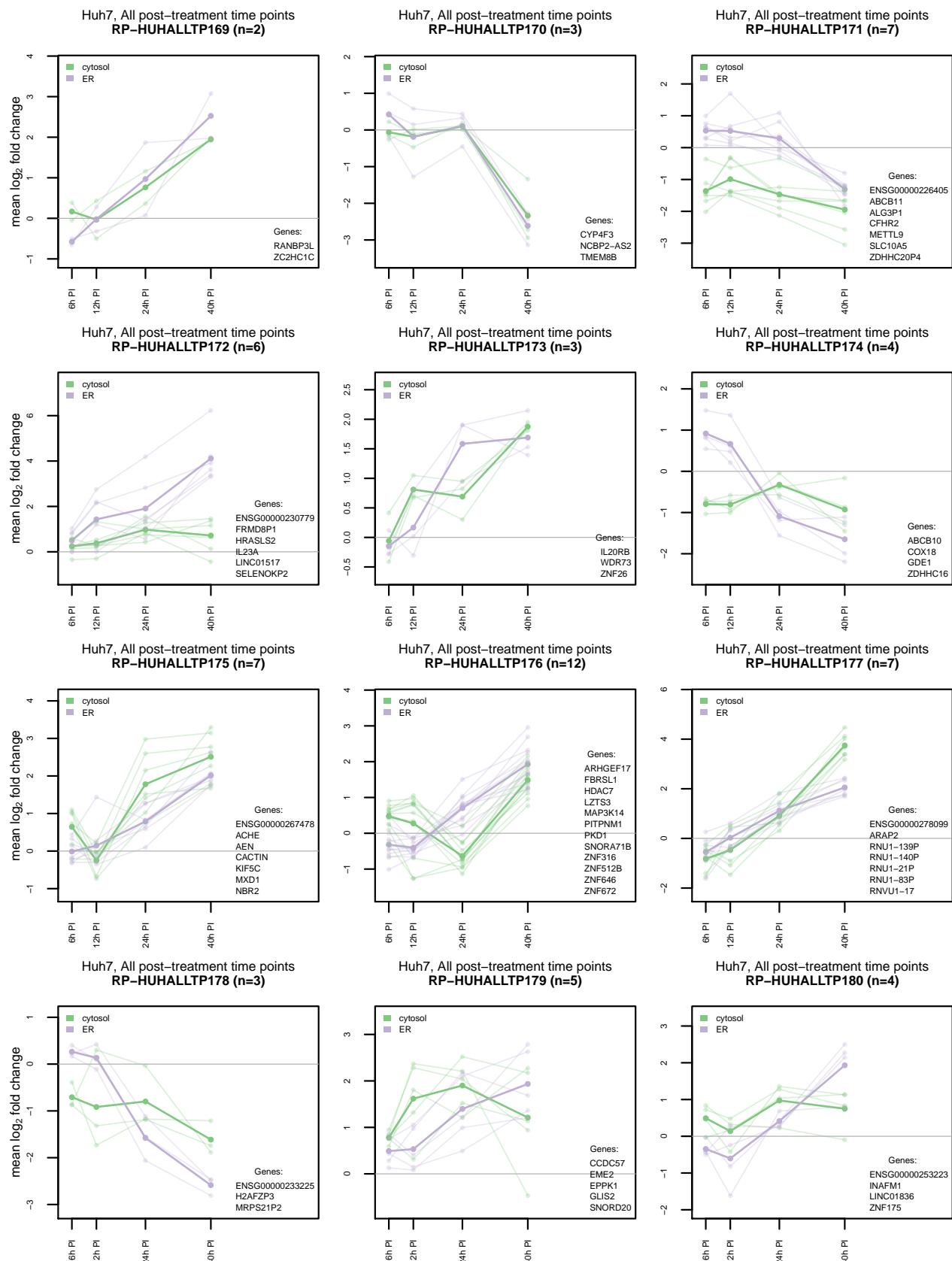


Figure 141: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 15 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

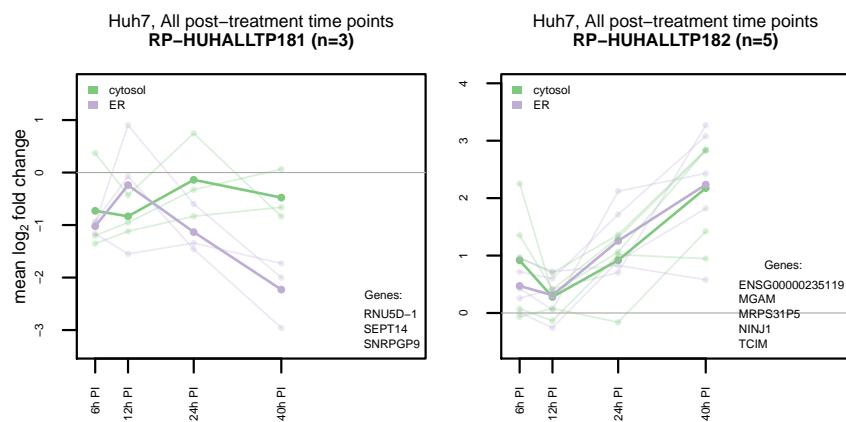


Figure 142: Co-expressed gene cluster time trends of \log_2 fold change from pre-treatment levels by treatment 16 of 16 (RP, Huh7). Header indicates cluster ID. Mean \log_2 fold change across cluster genes is drawn in bold. Individual mean gene \log_2 fold changes are plotted in lighter colors.

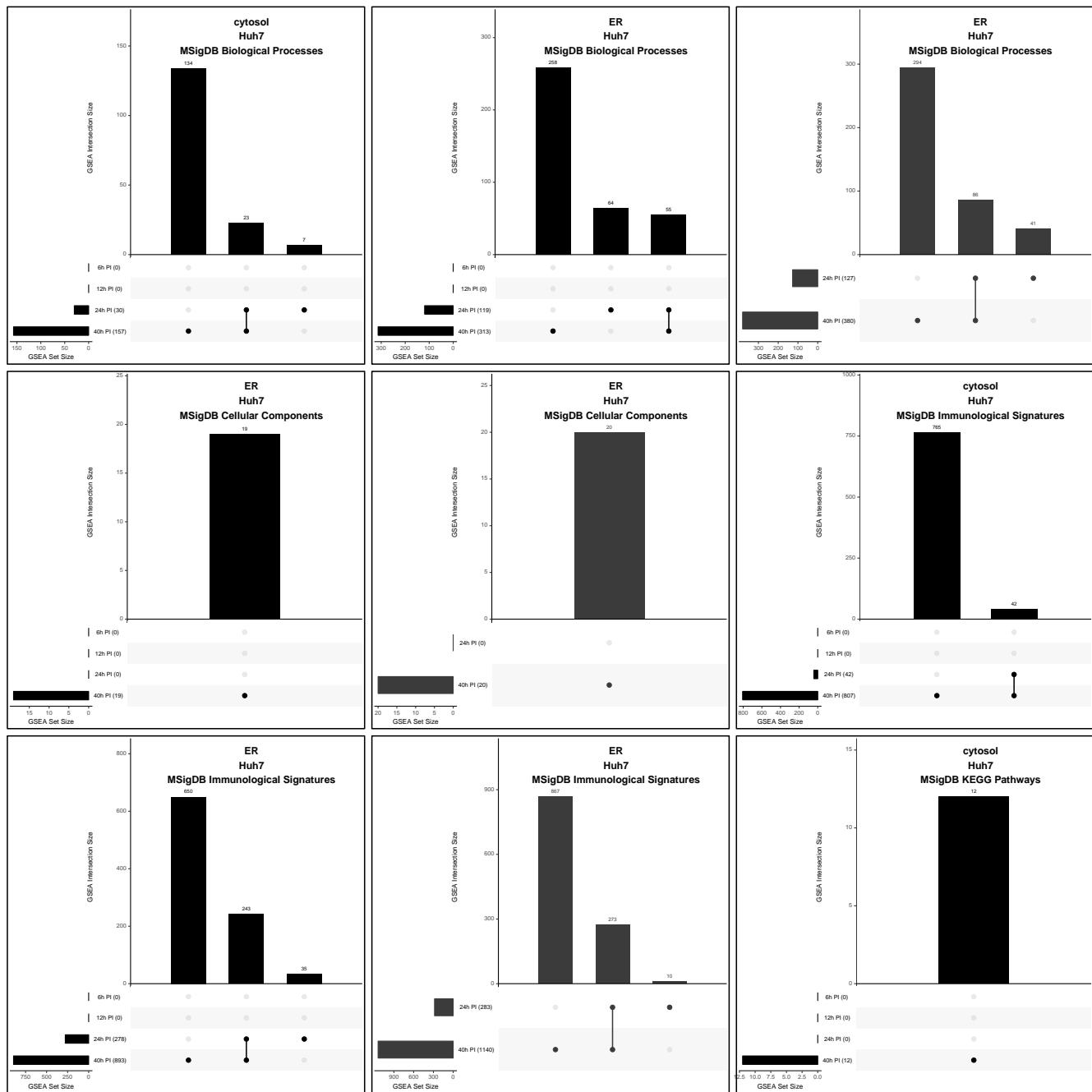


Figure 143: UpSet plots of enriched gene sets between post-treatment time points 1 of 2 (RP, Huh7, cytosol)..

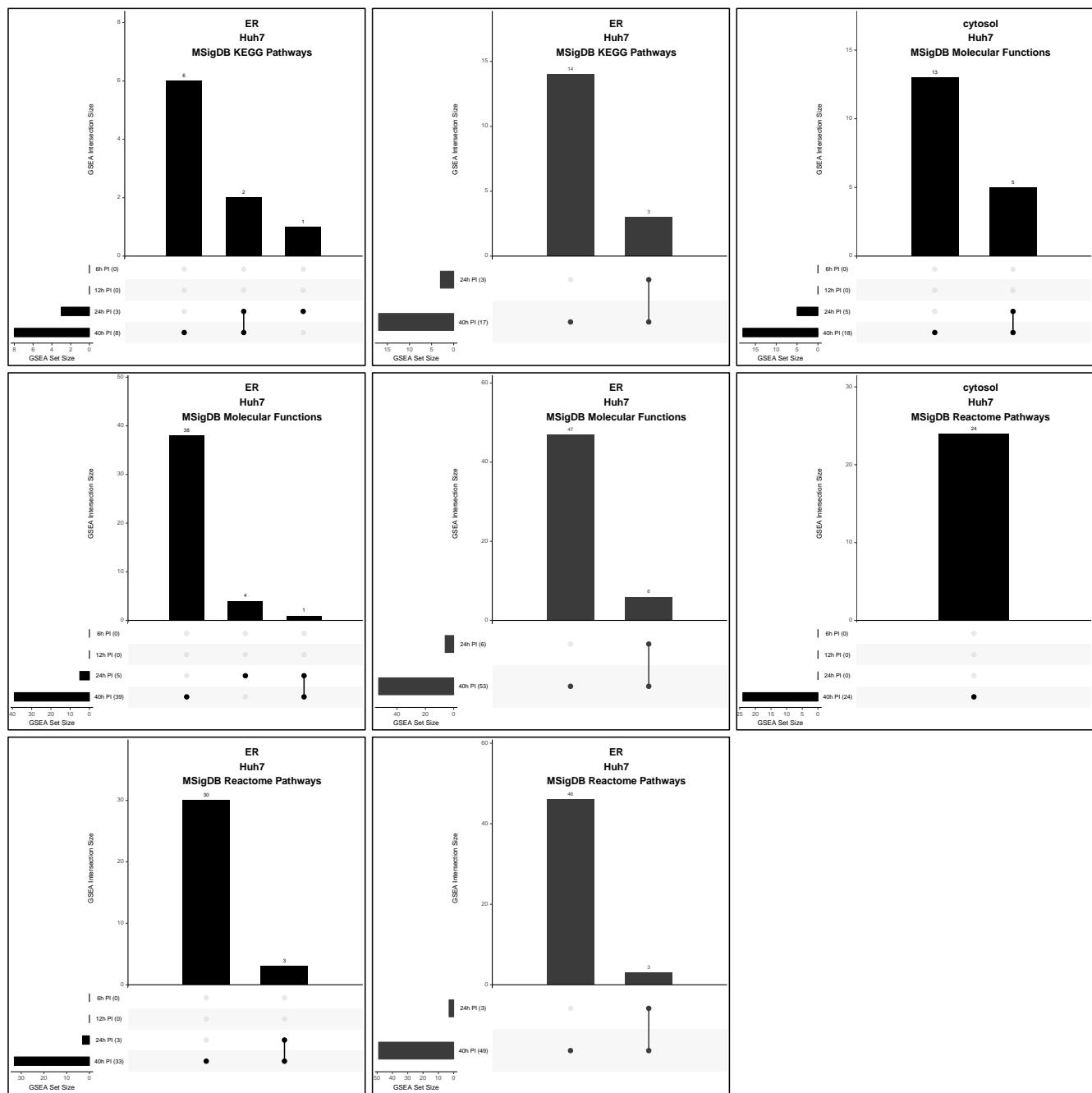


Figure 144: UpSet plots of enriched gene sets between post-treatment time points 2 of 2 (RP, Huh7, ER)..

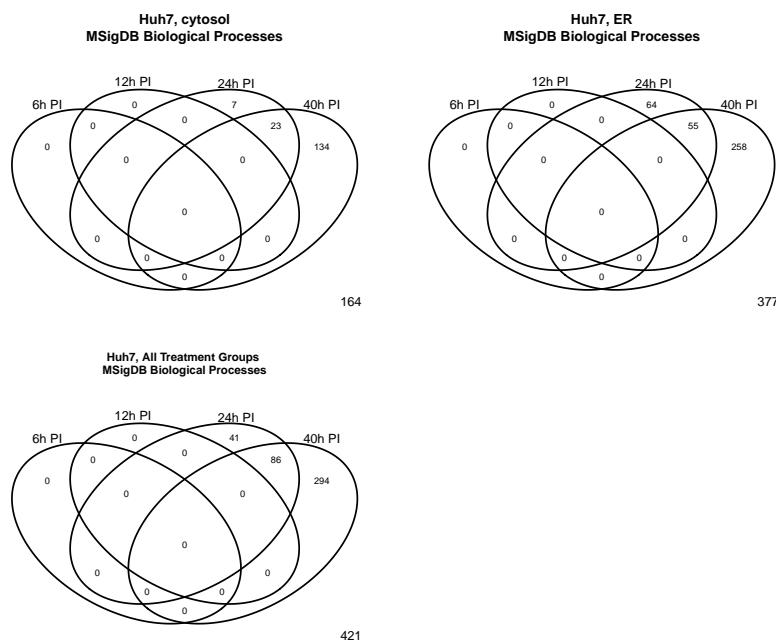


Figure 145: Venn diagrams of enriched MSigDB Biological Processes between post-treatment time points (RP, Huh7).

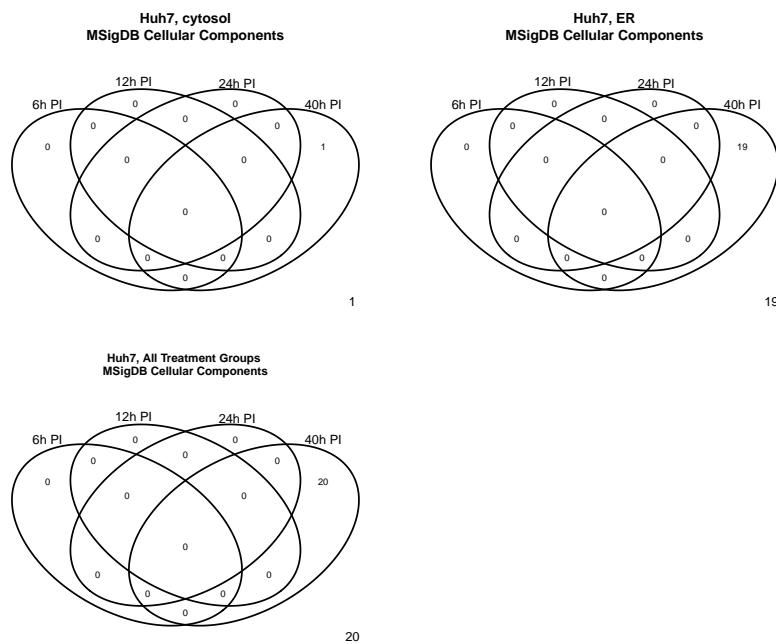


Figure 146: Venn diagrams of enriched MSigDB Cellular Components between post-treatment time points (RP, Huh7).

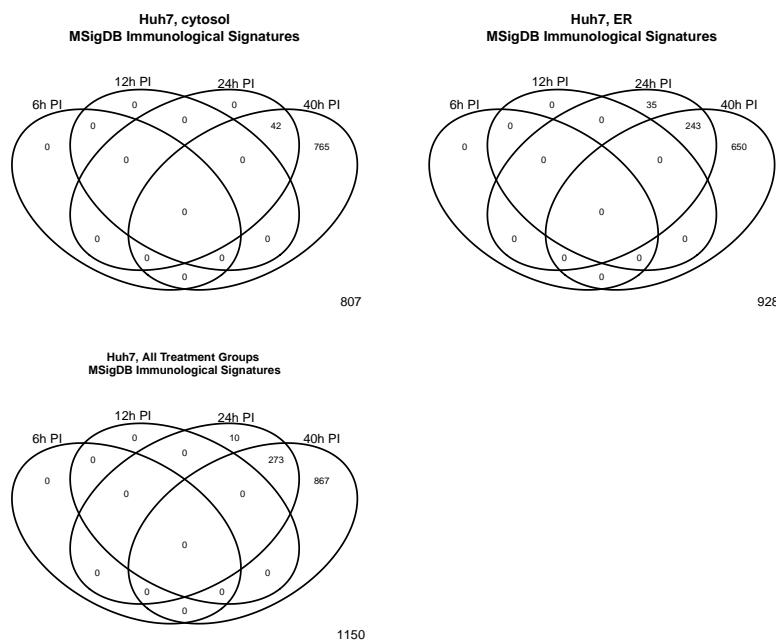


Figure 147: Venn diagrams of enriched MSigDB Immunological Signatures between post-treatment time points (RP, Huh7).

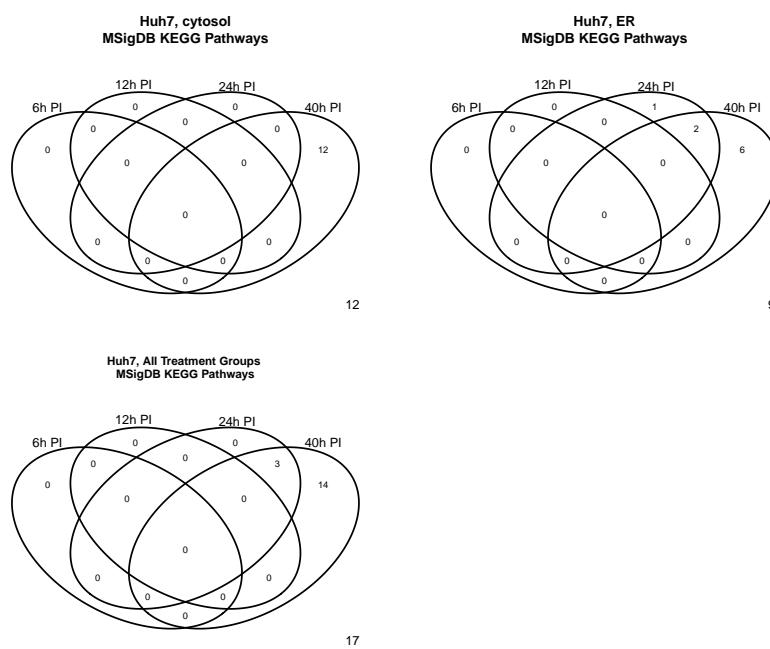
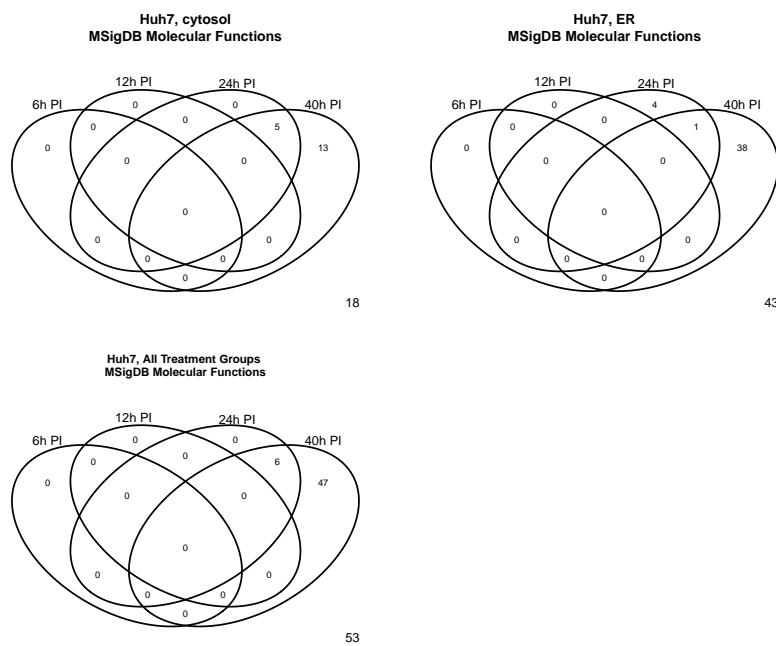
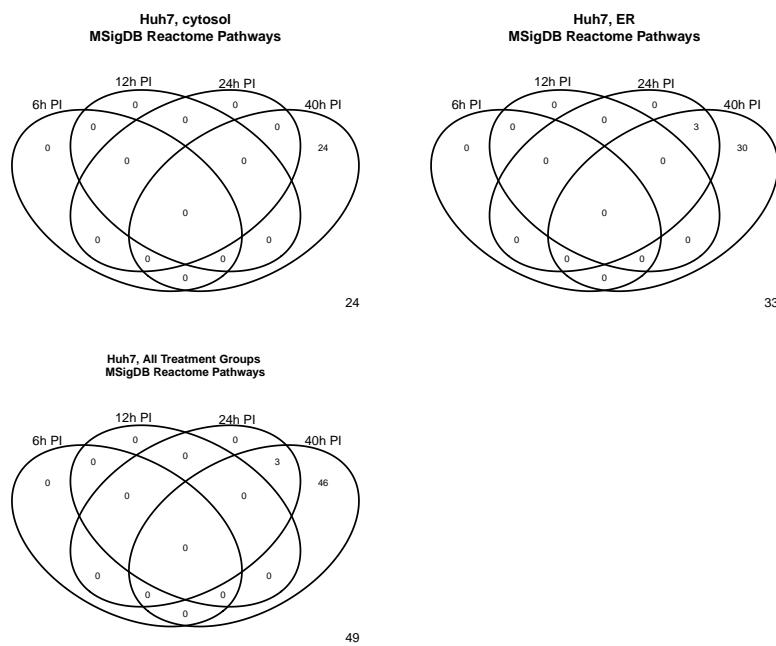


Figure 148: Venn diagrams of enriched MSigDB KEGG Pathways between post-treatment time points (RP, Huh7).

**Figure 149:** Venn diagrams of enriched MSigDB Molecular Functions between post-treatment time points (RP, Huh7).**Figure 150:** Venn diagrams of enriched MSigDB Reactome Pathways between post-treatment time points (RP, Huh7).

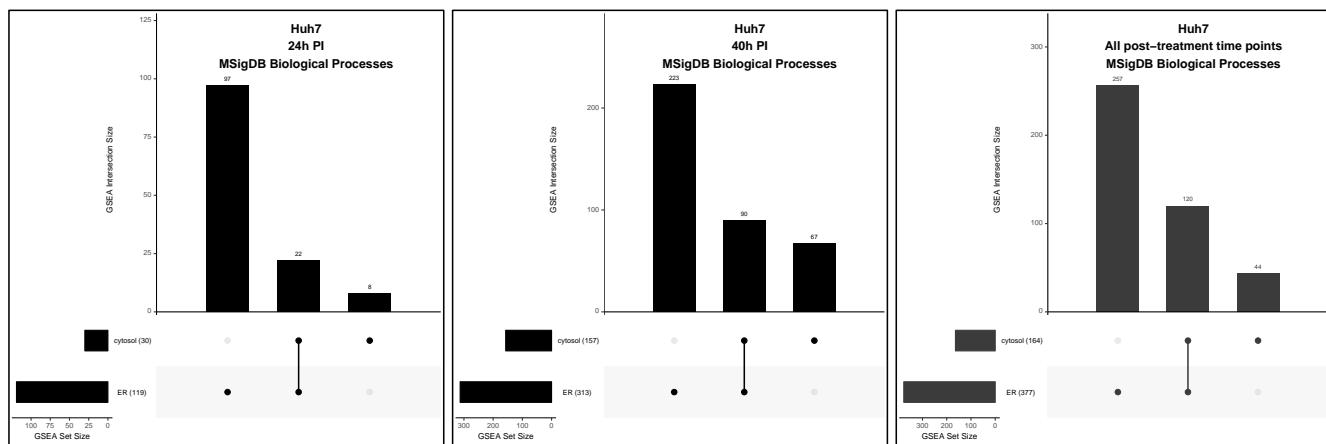


Figure 151: UpSet plots of enriched gene sets between treatment groups (RP, Huh7, MSigDB Biological Processes)..

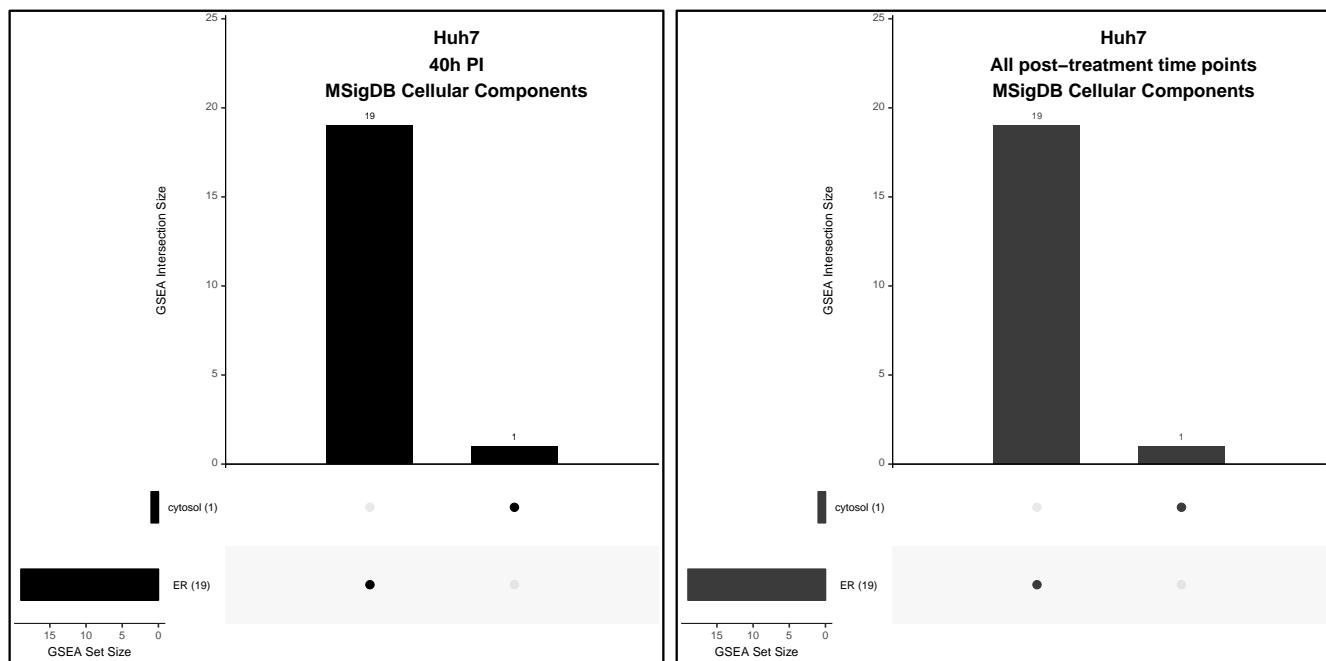


Figure 152: UpSet plots of enriched gene sets between treatment groups (RP, Huh7, MSigDB Cellular Components)..

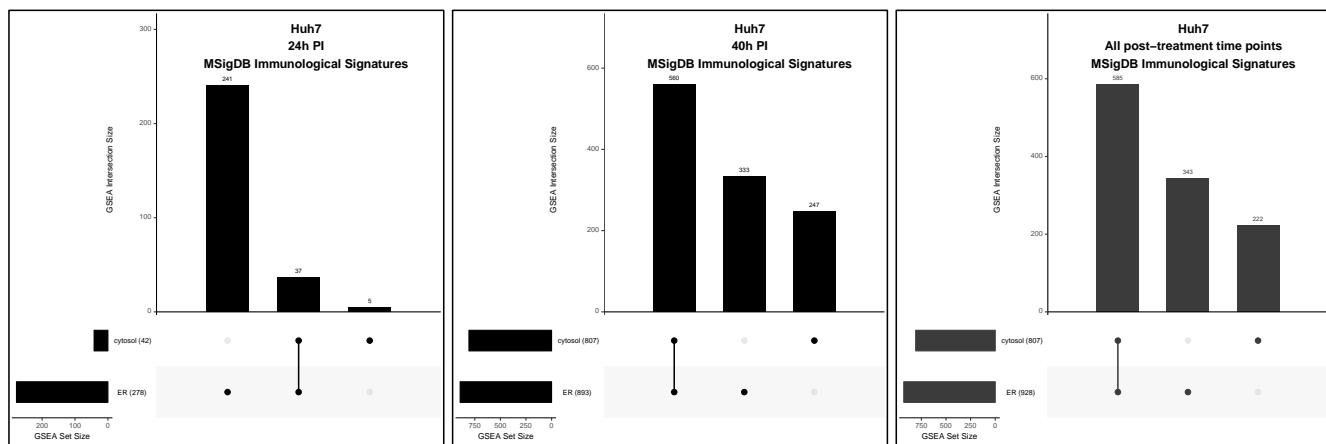


Figure 153: UpSet plots of enriched gene sets between treatment groups (RP, Huh7, MSigDB Immunological Signatures)..

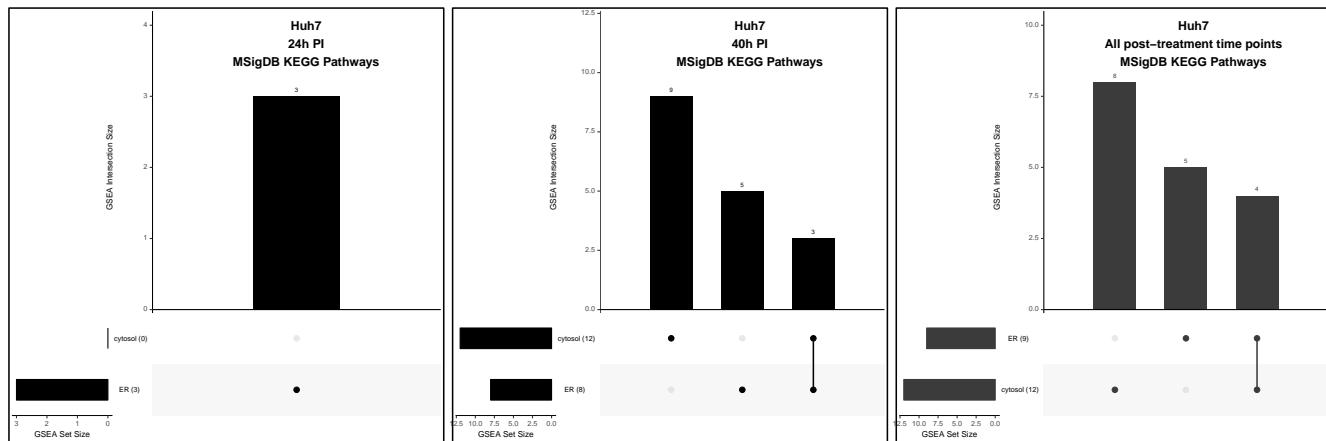


Figure 154: UpSet plots of enriched gene sets between treatment groups (RP, Huh7, MSigDB KEGG Pathways)..

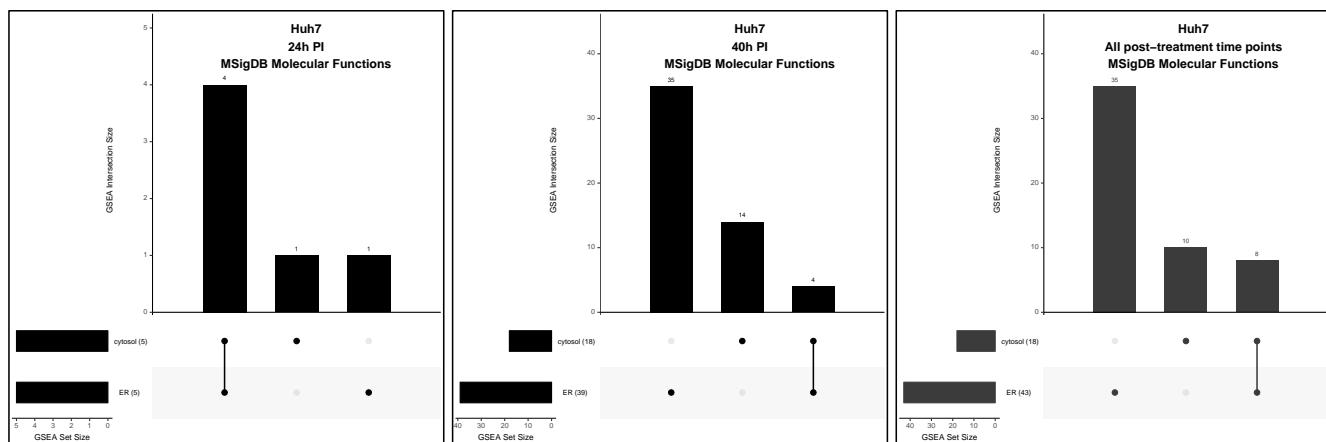


Figure 155: UpSet plots of enriched gene sets between treatment groups (RP, Huh7, MSigDB Molecular Functions)..

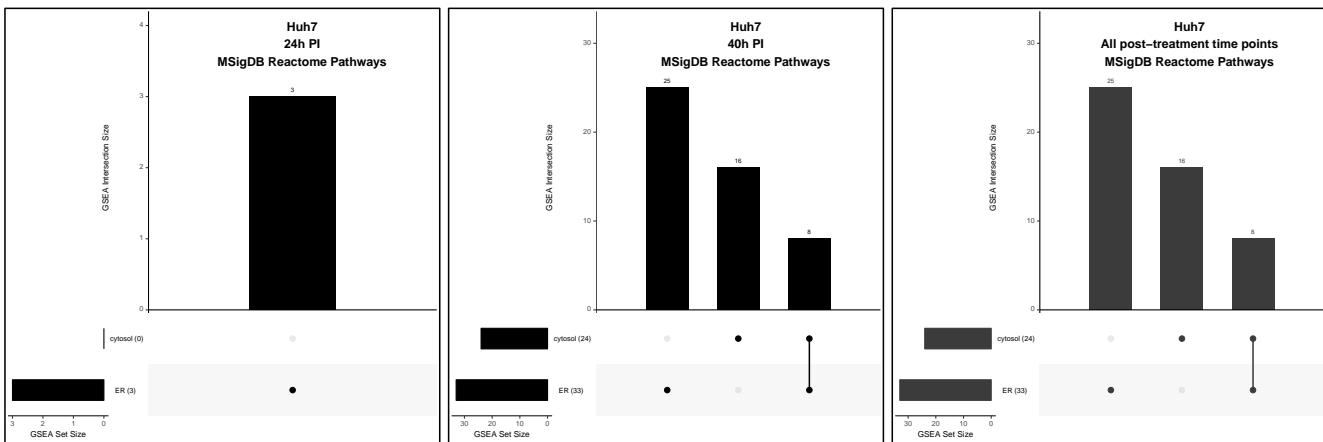


Figure 156: UpSet plots of enriched gene sets between treatment groups (RP, Huh7, MSigDB Reactome Pathways)..

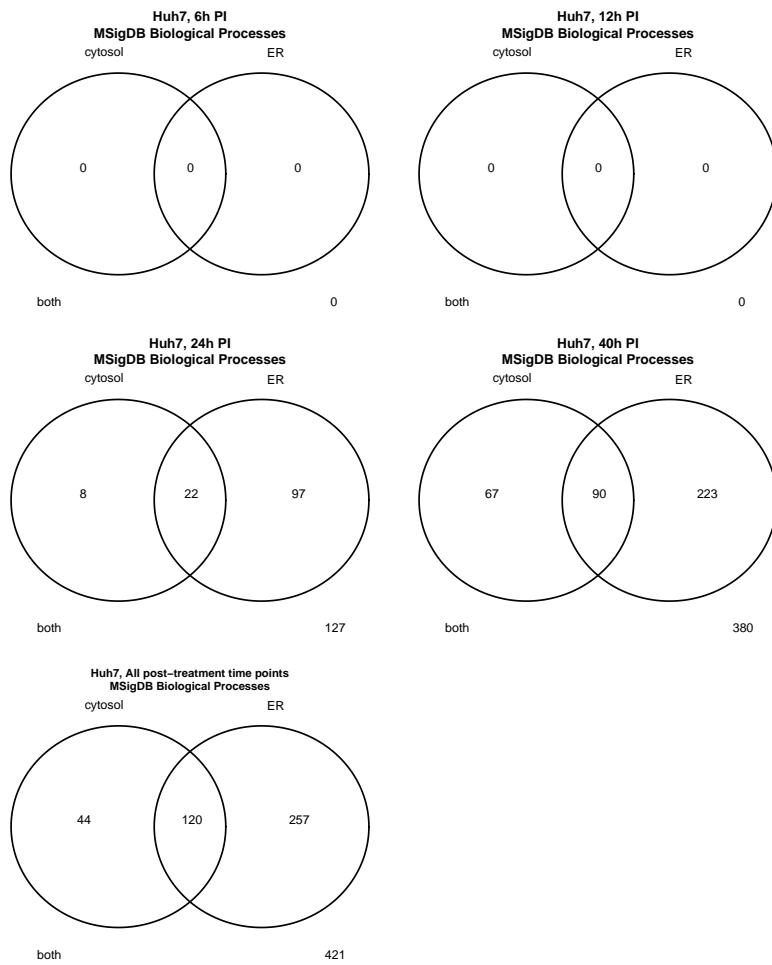


Figure 157: Venn diagrams of enriched MSigDB Biological Processes between treatment groups (RP, Huh7).

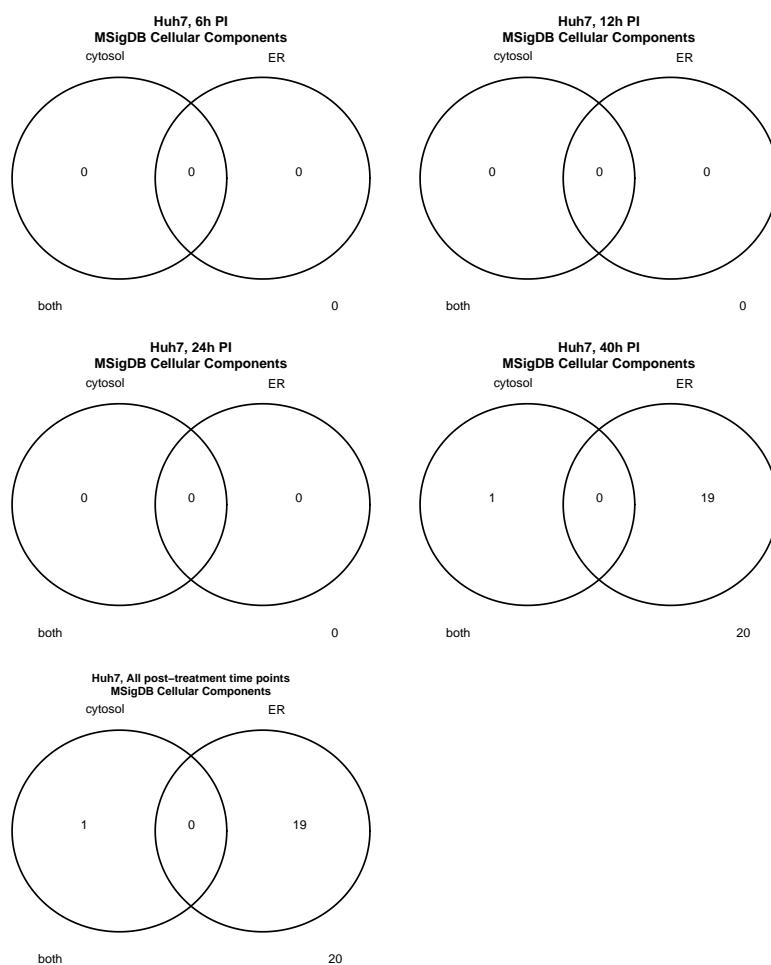


Figure 158: Venn diagrams of enriched MSigDB Cellular Components between treatment groups (RP, Huh7).

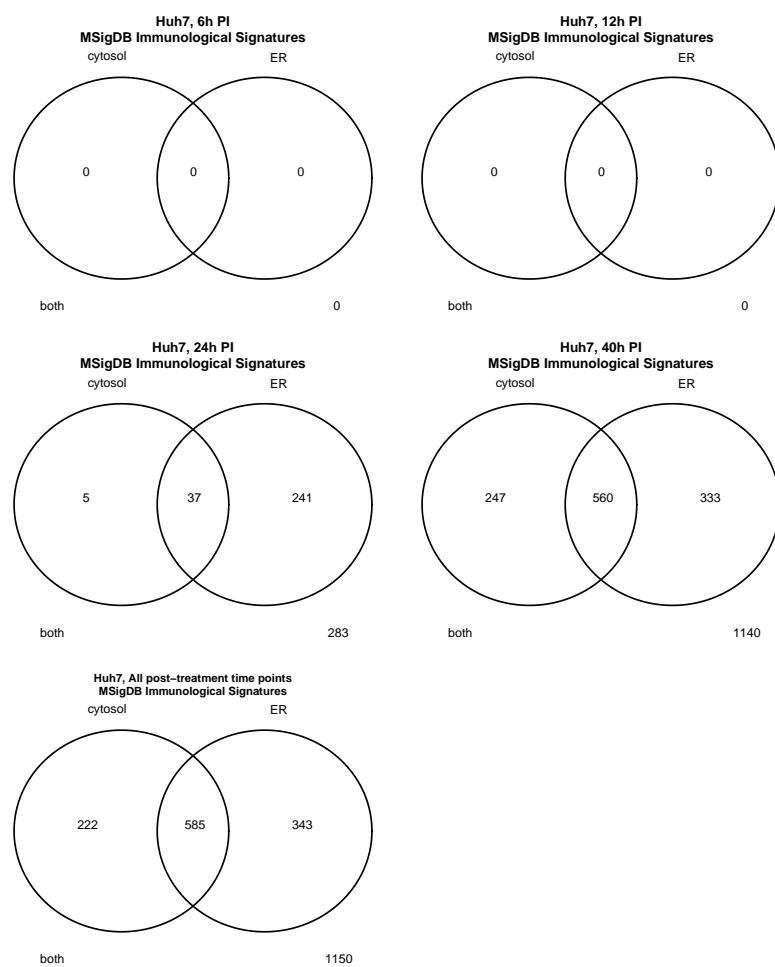


Figure 159: Venn diagrams of enriched MSigDB Immunological Signatures between treatment groups (RP, Huh7).

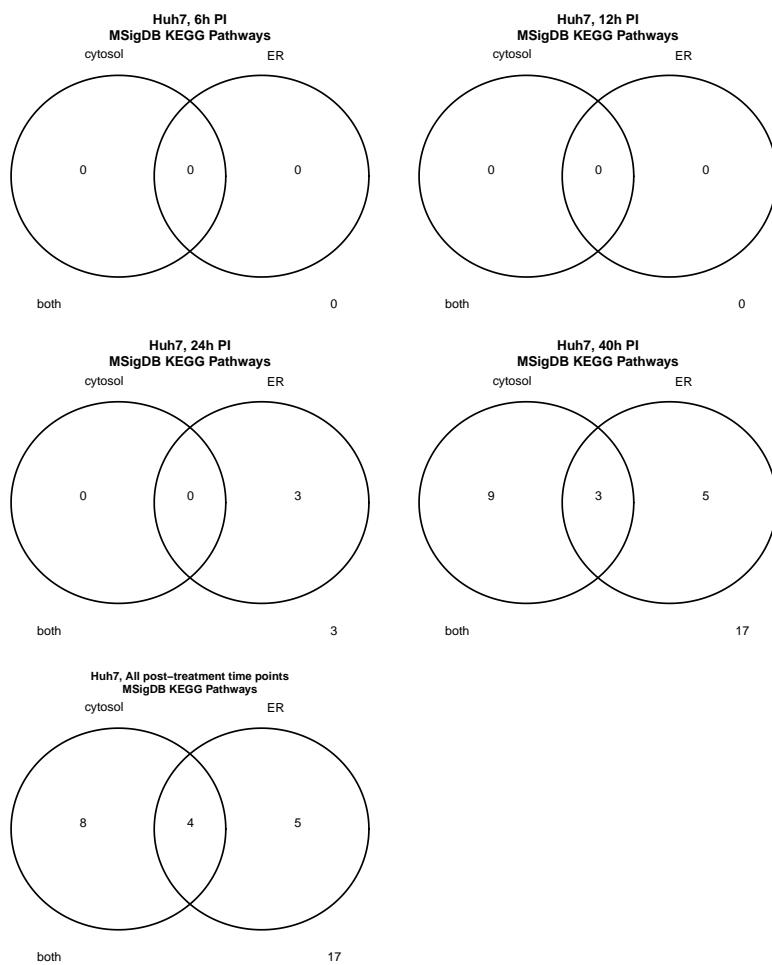


Figure 160: Venn diagrams of enriched MSigDB KEGG Pathways between treatment groups (RP, Huh7).

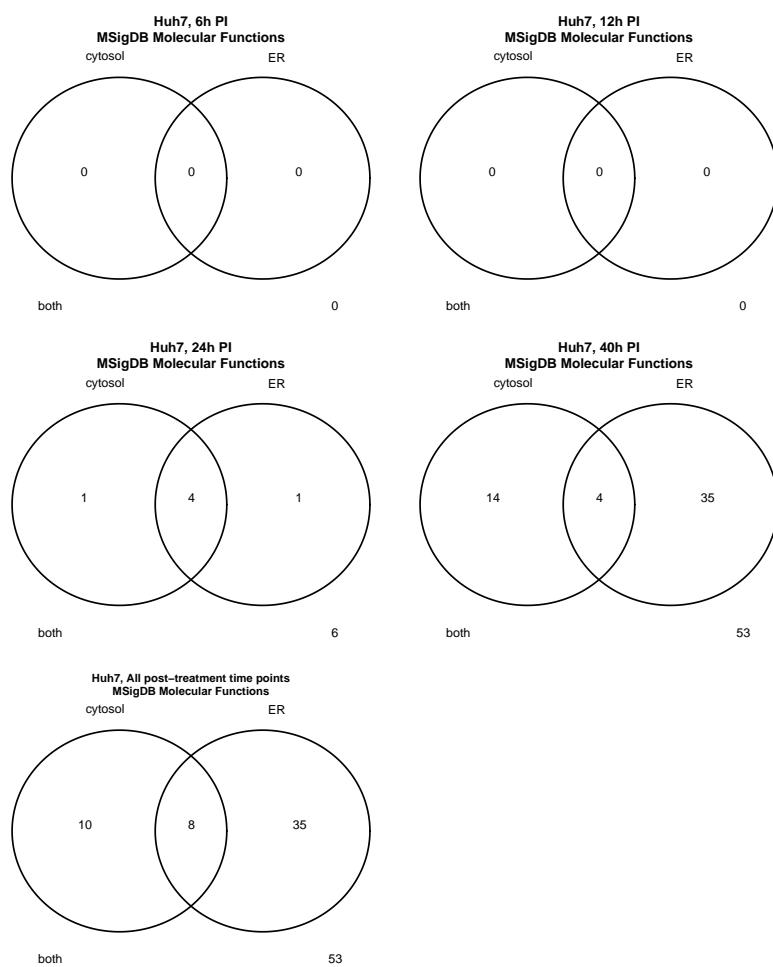


Figure 161: Venn diagrams of enriched MSigDB Molecular Functions between treatment groups (RP, Huh7).

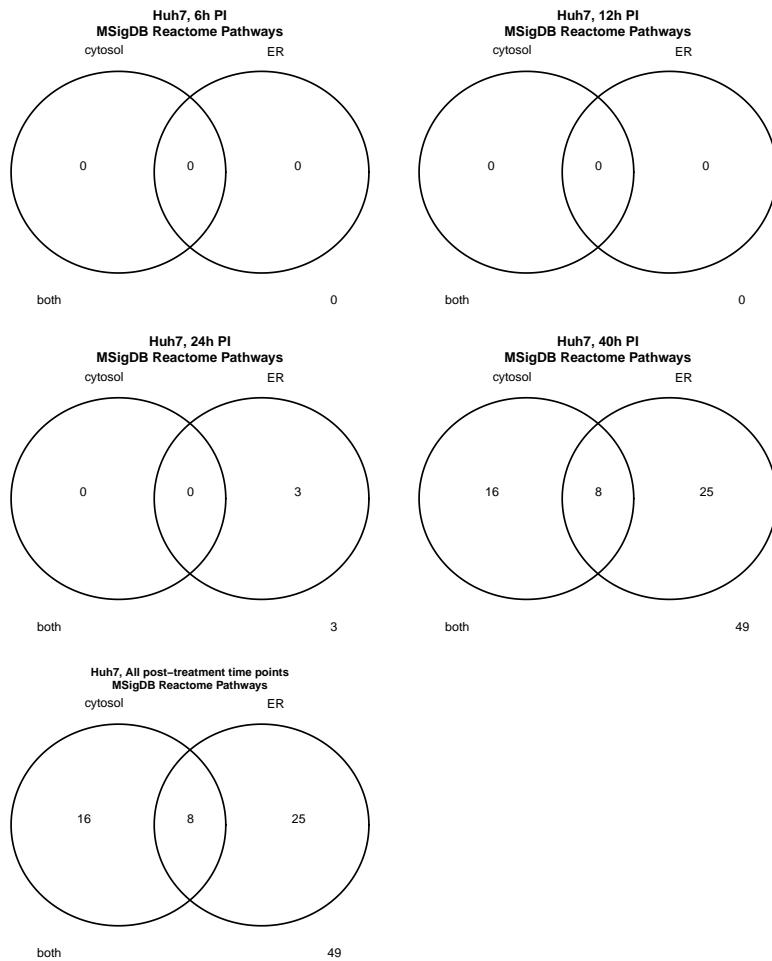


Figure 162: Venn diagrams of enriched MSigDB Reactome Pathways between treatment groups (RP, Huh7).

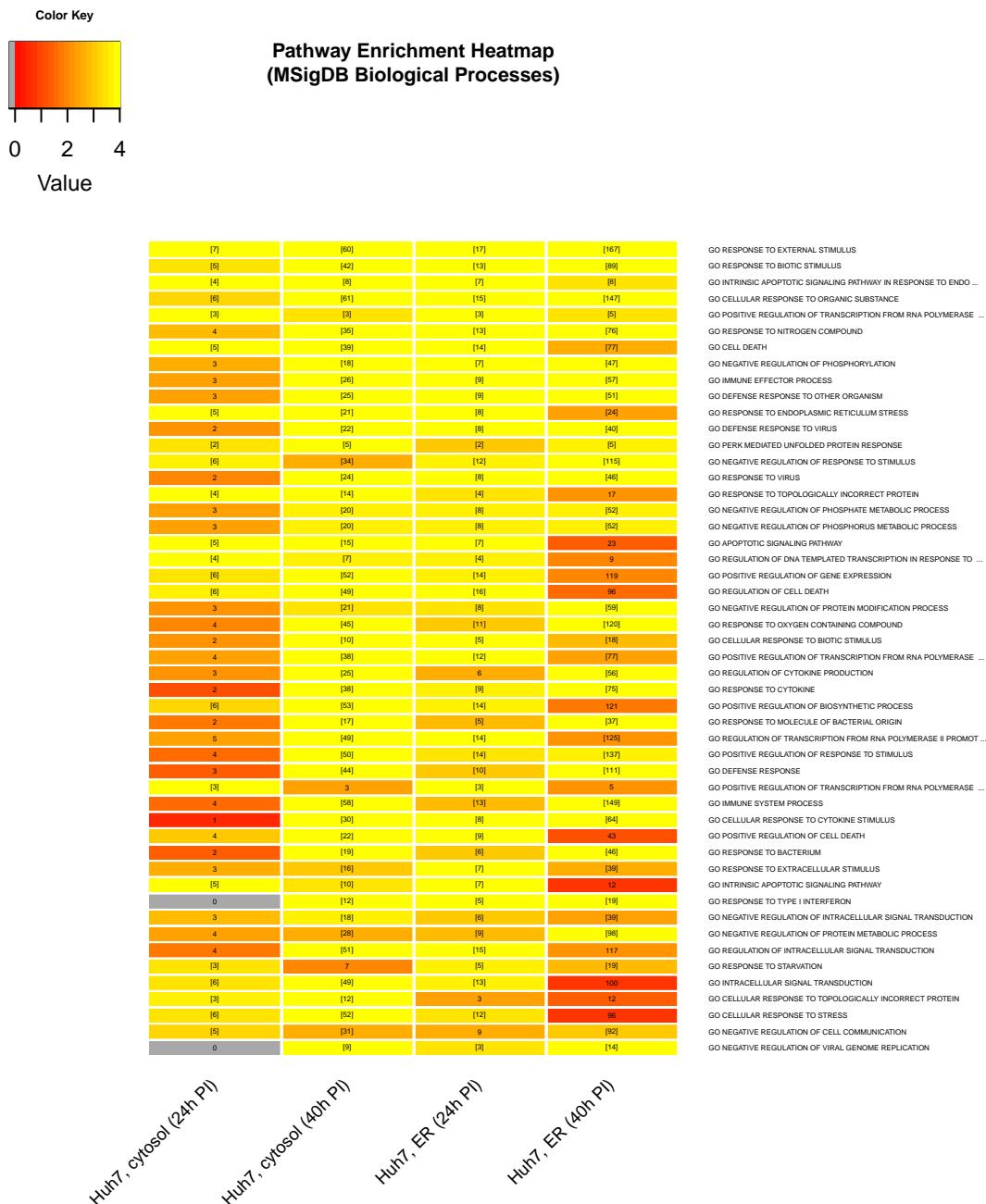


Figure 163: Heatmap of enriched MSigDB Biological Processes (RP). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

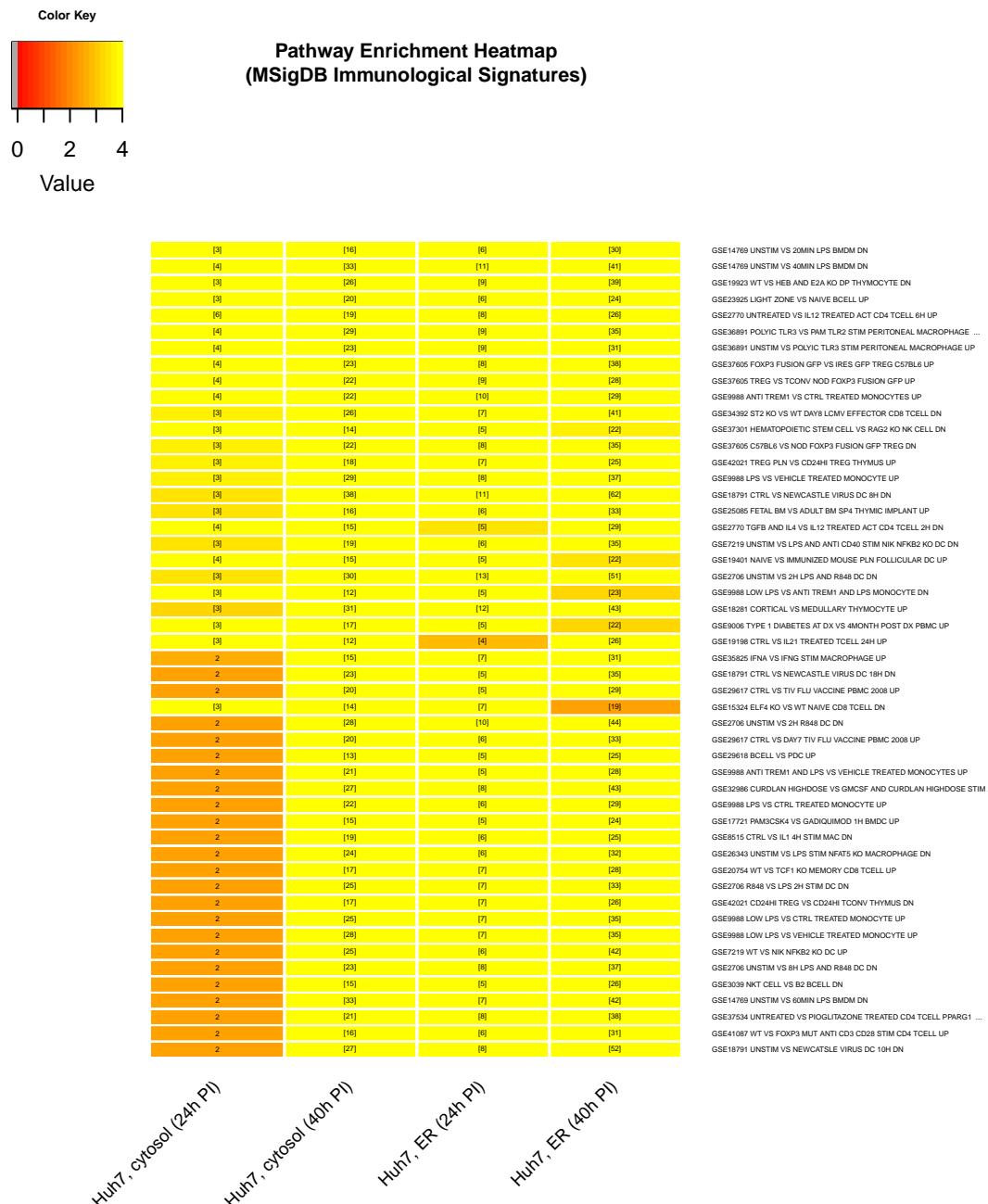


Figure 164: Heatmap of enriched MSigDB Immunological Signatures (RP). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

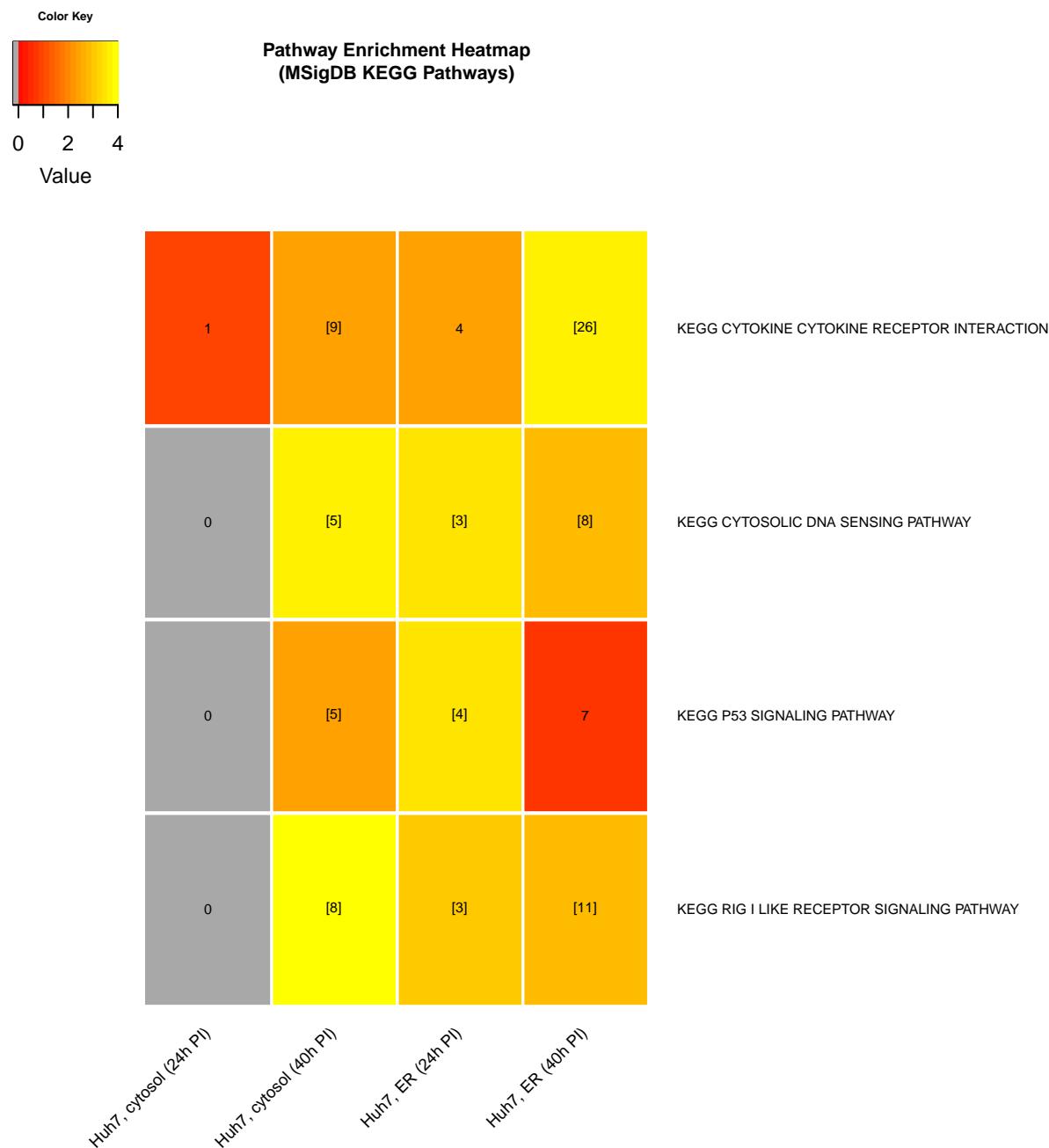


Figure 165: Heatmap of enriched MSigDB KEGG Pathways (RP). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted p-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

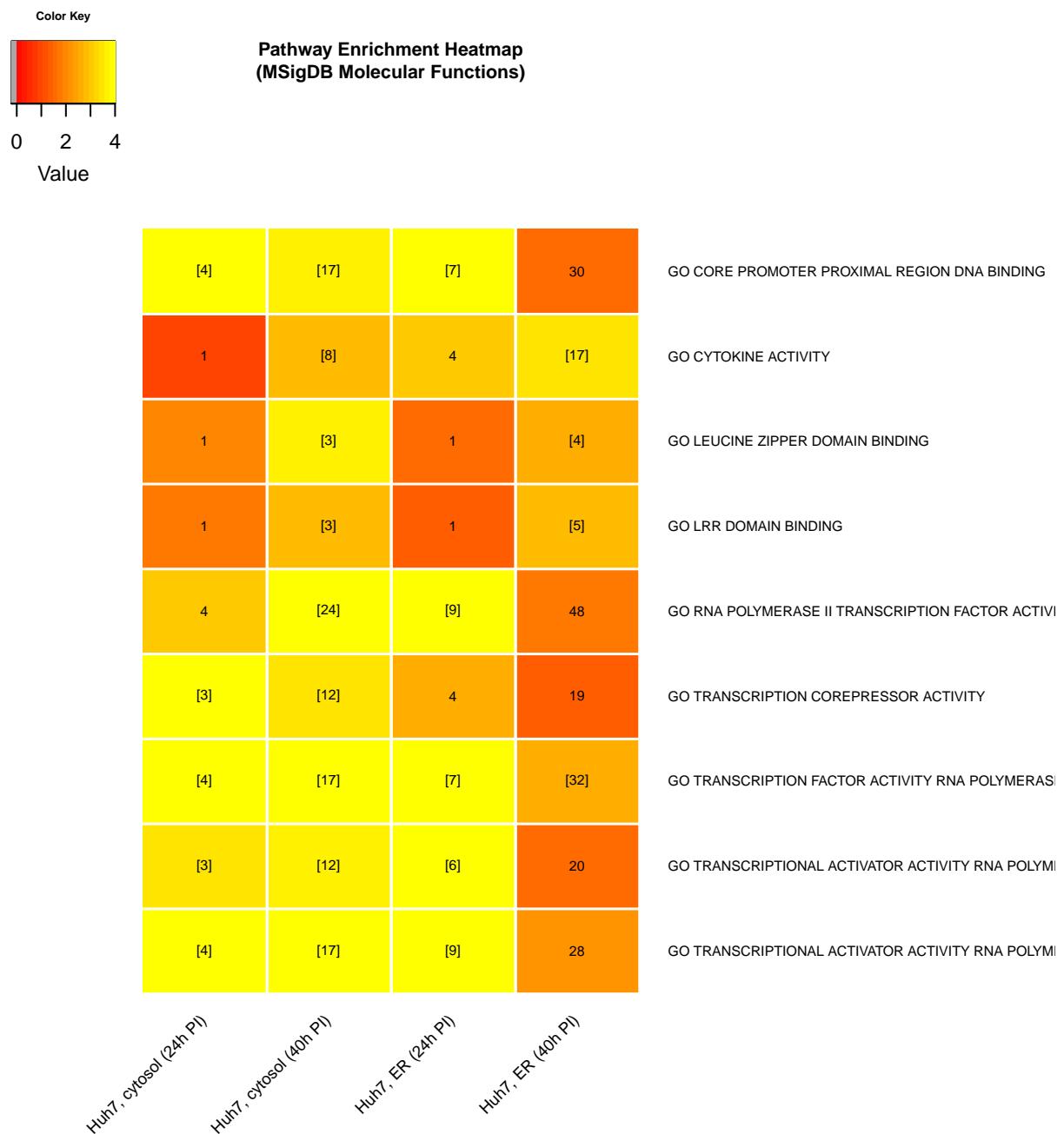


Figure 166: Heatmap of enriched MSigDB Molecular Functions (RP). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted } p\text{-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

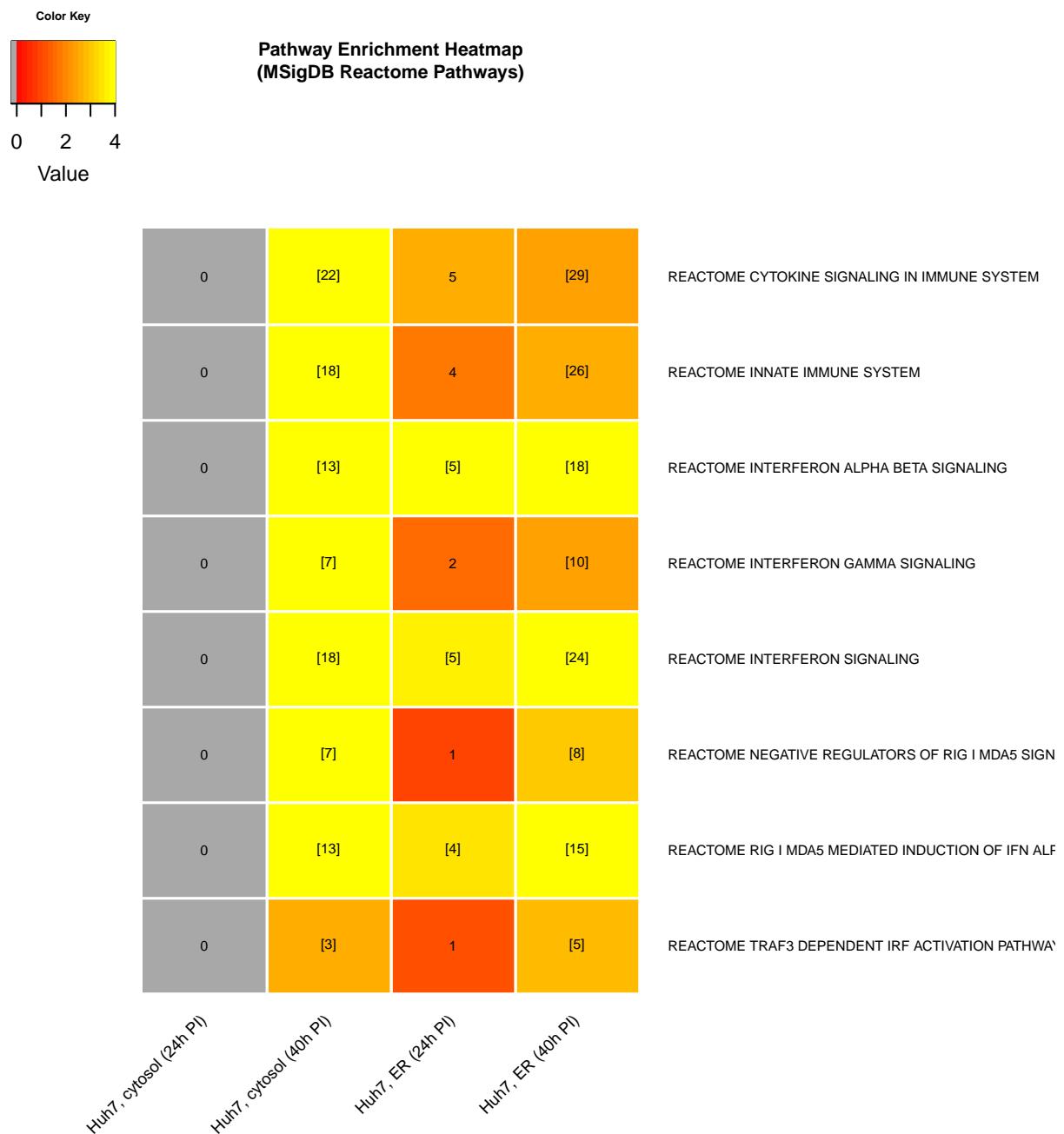


Figure 167: Heatmap of enriched MSigDB Reactome Pathways (RP). Gene sets significantly enriched in at least two conditions are shown. Cells are color-coded by the enrichment score ($-1 \times \log_{10}(\text{FDR-adjusted } p\text{-value})$). Cells contain the number of significant genes in the gene set with gene numbers in brackets indicating significantly enriched sets. Sets were clustered based on the euclidean distance between their enrichment score pattern using the complete linkage clustering algorithm. If there were more than 50 gene sets in the results, gene sets were further filtered to only include sets whose sum of enrichment score across conditions was the top 50 of all sets. Cells colored in grey have an enrichment score equal to zero.

Huh7, cytosol

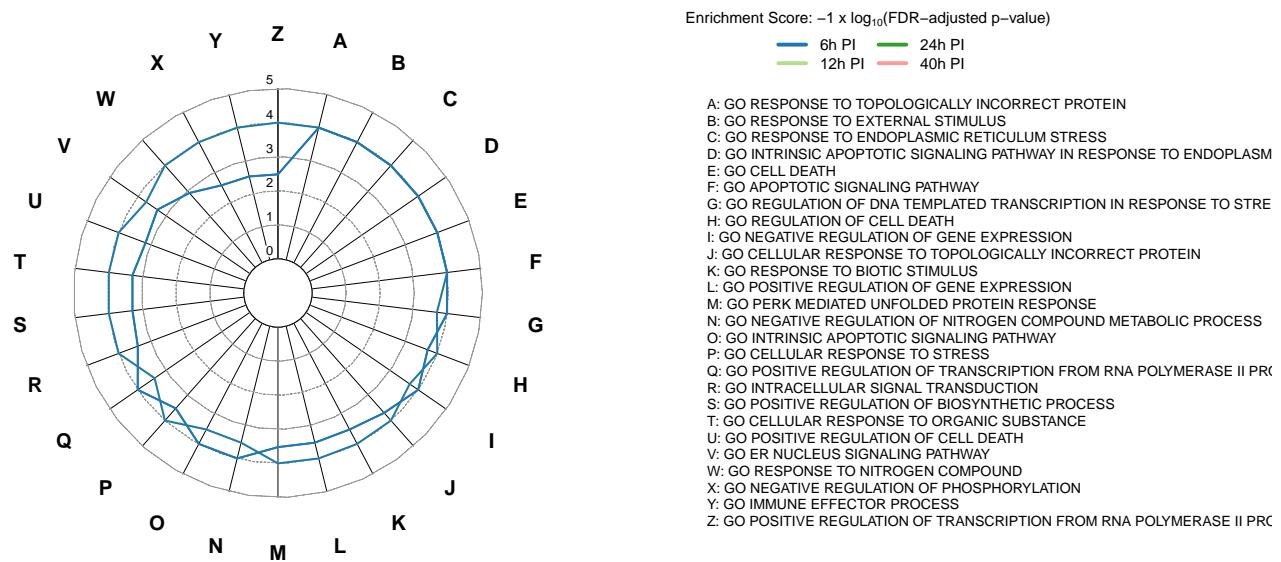


Figure 168: Radar Plot of enriched MSigDB Biological Processes (RP, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

Huh7, ER

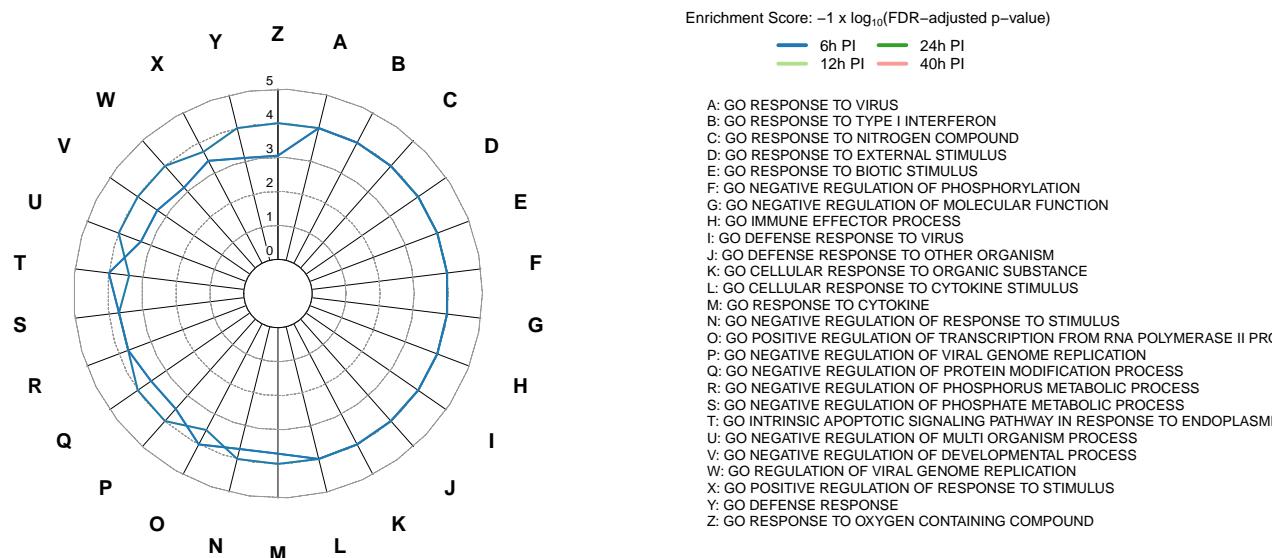


Figure 169: Radar Plot of enriched MSigDB Biological Processes (RP, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

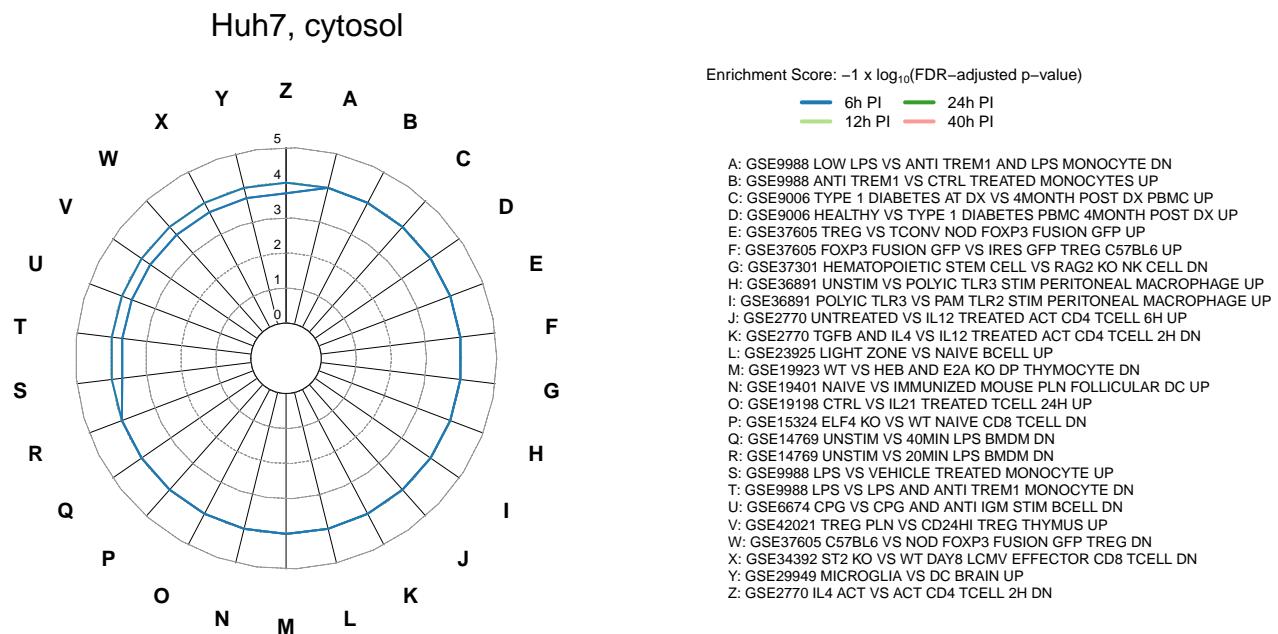


Figure 170: Radar Plot of enriched MSigDB Immunological Signatures (RP, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

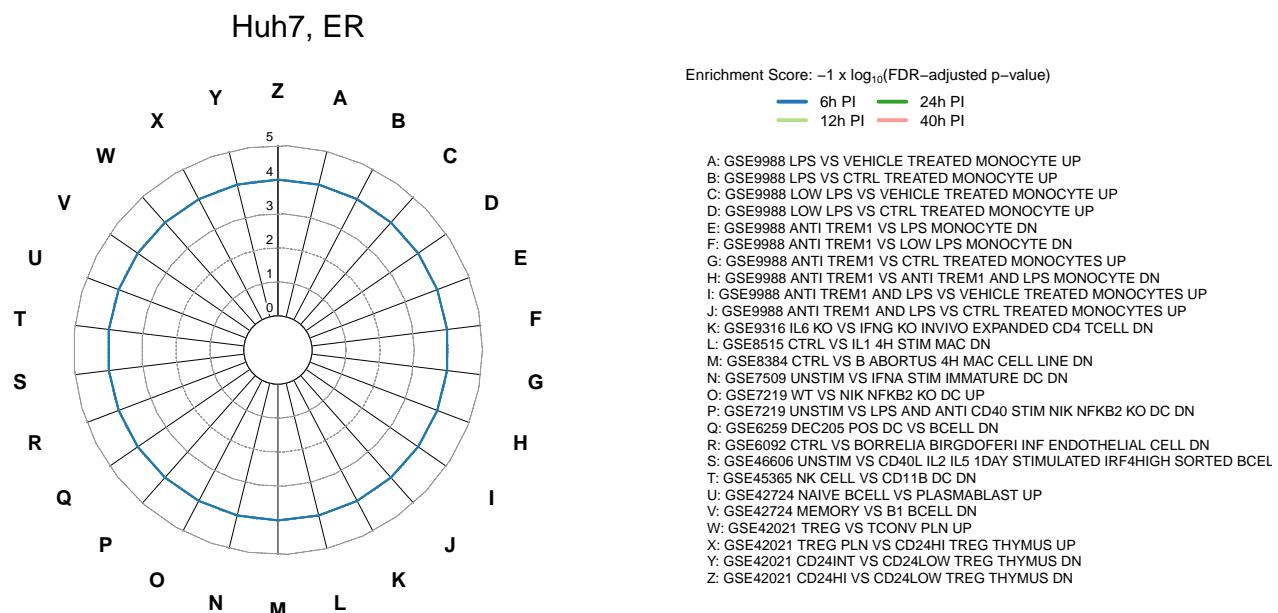


Figure 171: Radar Plot of enriched MSigDB Immunological Signatures (RP, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

Huh7, cytosol

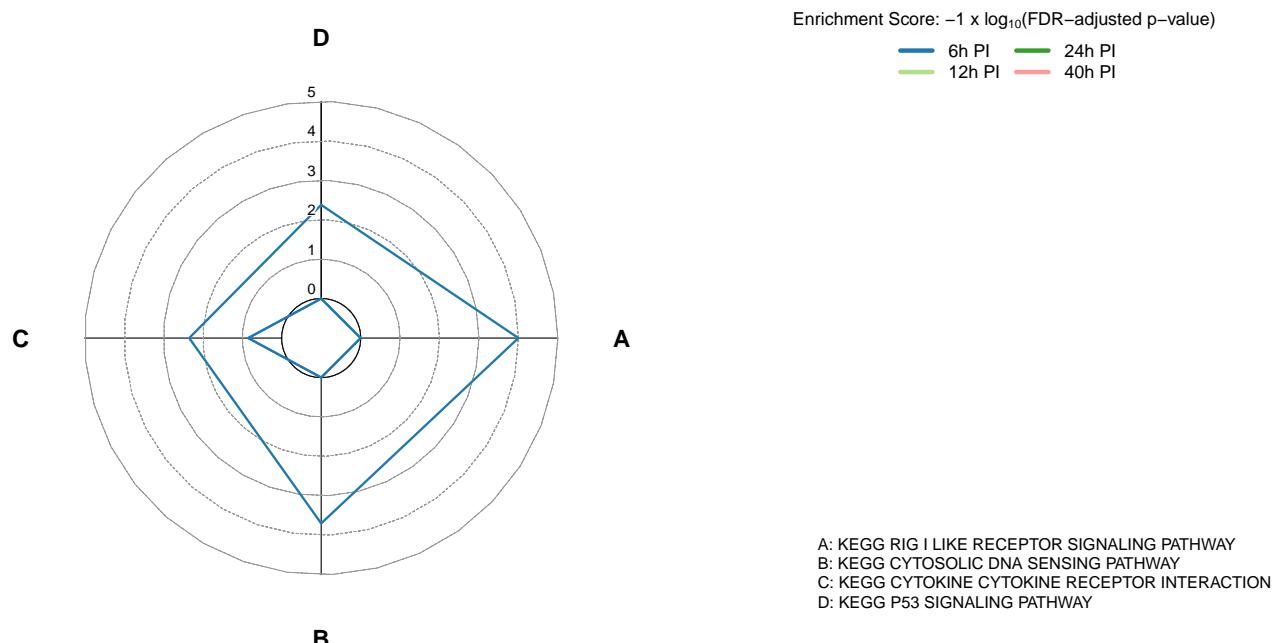


Figure 172: Radar Plot of enriched MSigDB KEGG Pathways (RP, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

Huh7, ER



Figure 173: Radar Plot of enriched MSigDB KEGG Pathways (RP, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

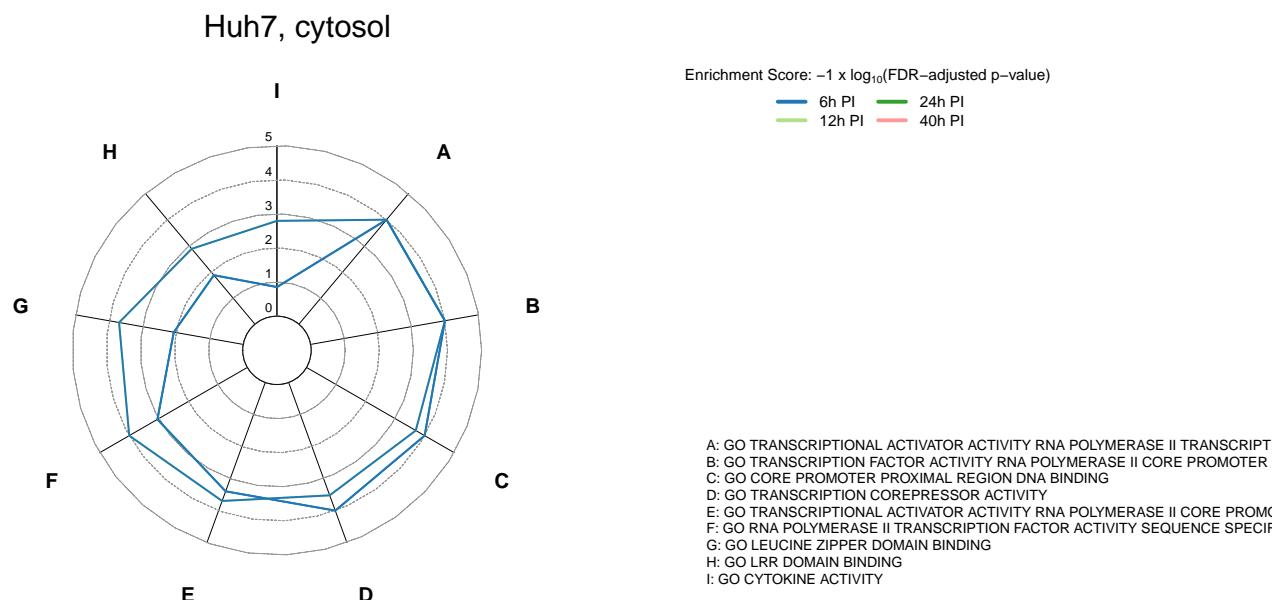


Figure 174: Radar Plot of enriched MSigDB Molecular Functions (RP, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

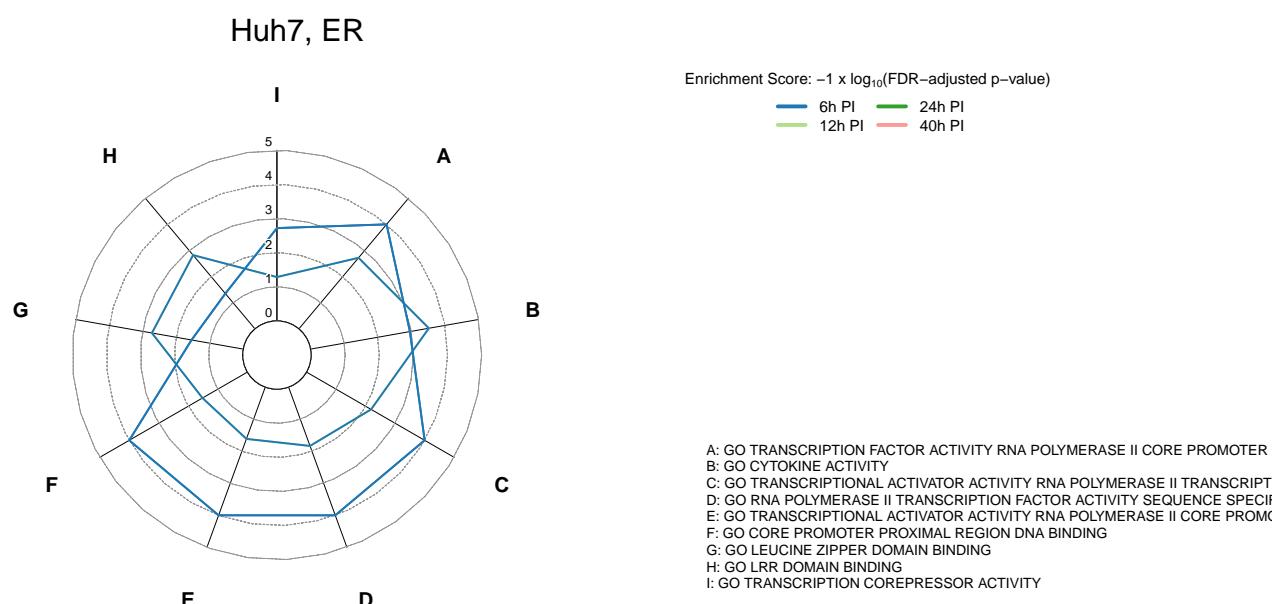


Figure 175: Radar Plot of enriched MSigDB Molecular Functions (RP, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

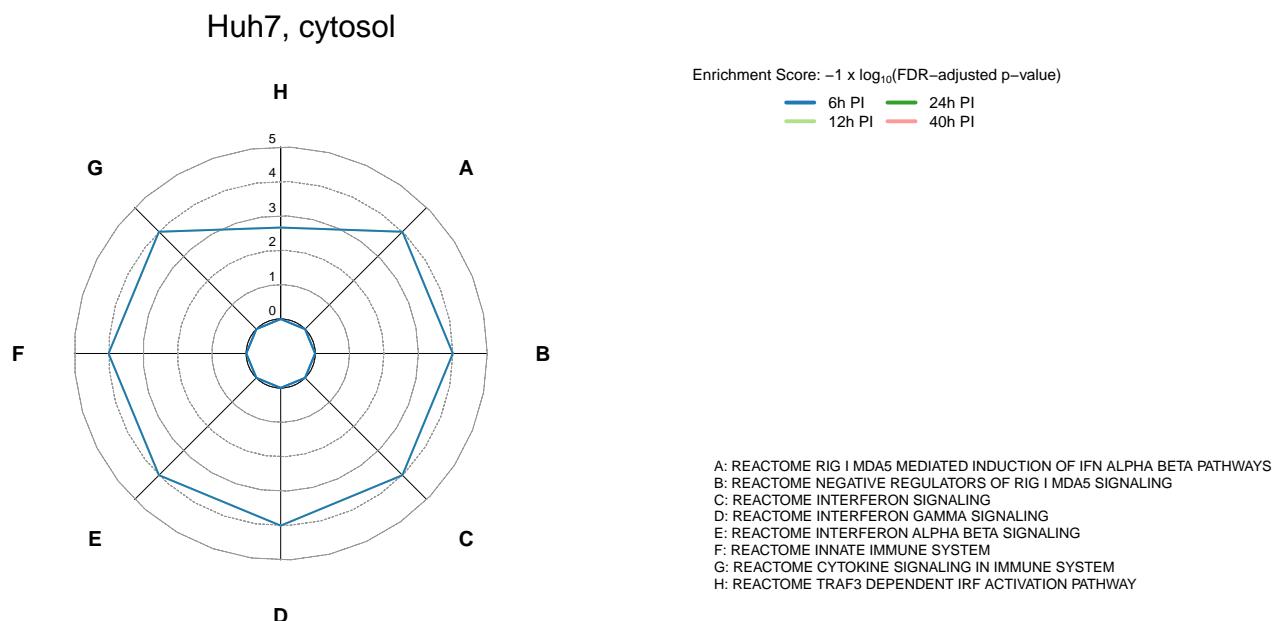


Figure 176: Radar Plot of enriched MSigDB Reactome Pathways (RP, Huh7, cytosol). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

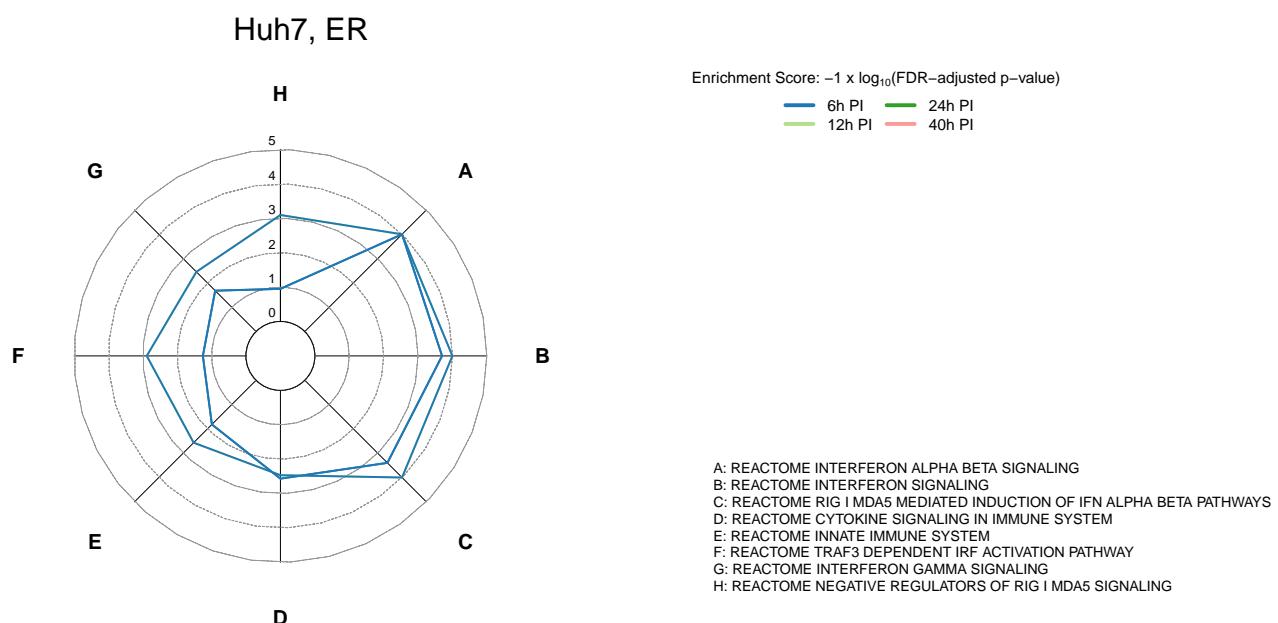


Figure 177: Radar Plot of enriched MSigDB Reactome Pathways (RP, Huh7, ER). Gene sets significantly enriched in at least two conditions are shown. If there were more than 26 gene sets in the results, gene sets were further filtered to only include sets whose enrichment score was the top 26 of all sets(Ribosomal Profiling).

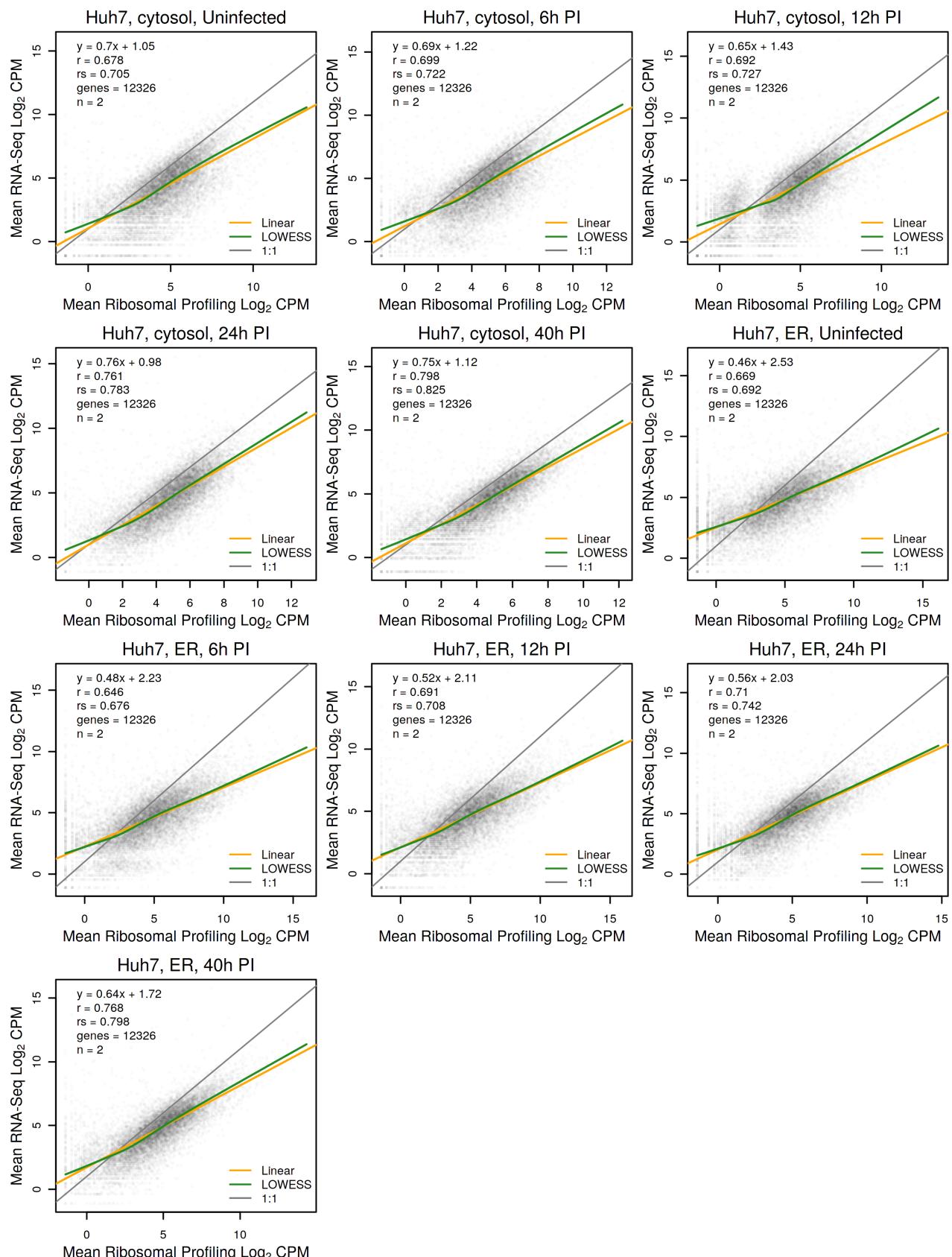


Figure 178: Scatterplots of \log_2 expression between shared RNA-Seq and Ribosomal Profiling samples averaged by specimen type, treatment group, and timepoint. The union of the RNA-Seq and Ribosomal Profiling LCPM filtered gene sets are shown. n = number of samples.

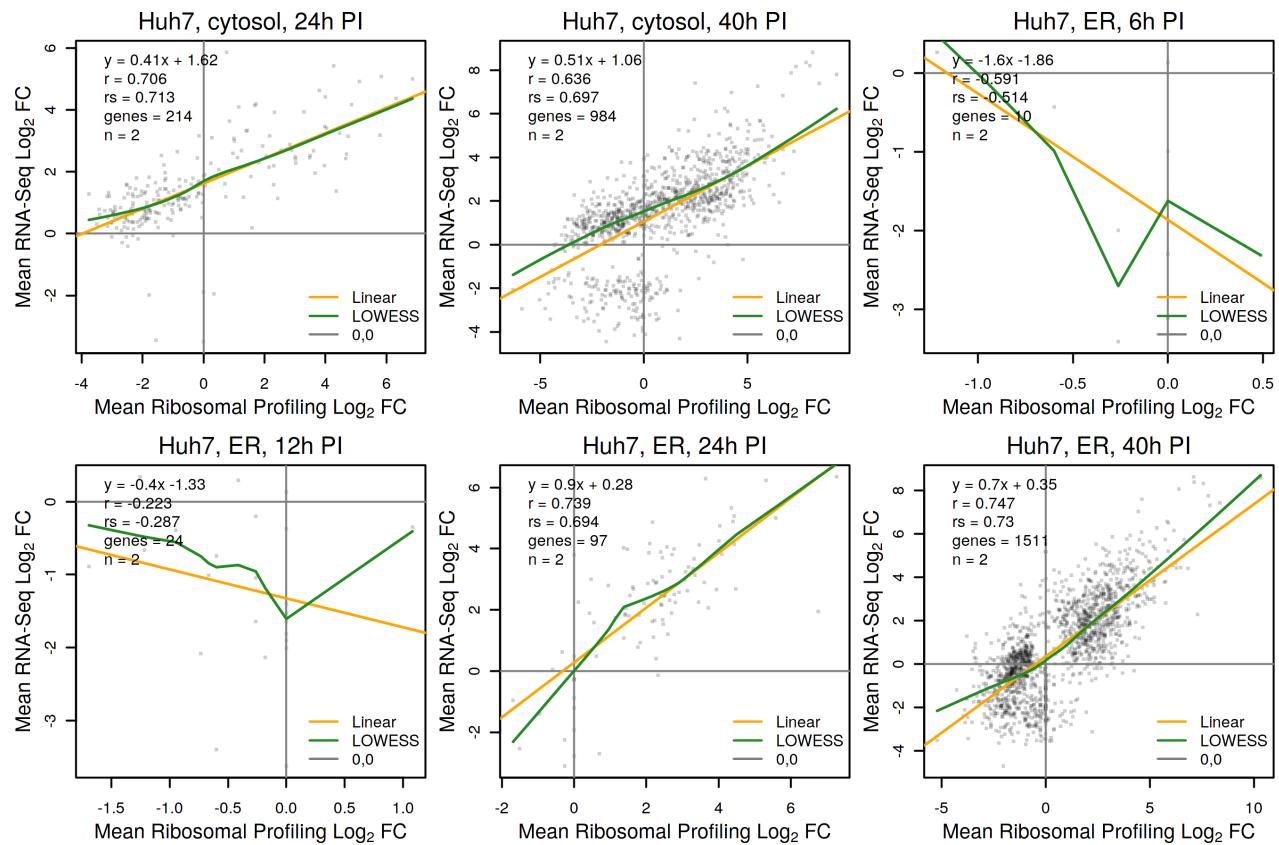


Figure 179: Scatterplots of the union of differentially expressed genes \log_2 fold change between shared RNA-Seq and Ribosomal Profiling samples averaged by specimen type, treatment group, and timepoint. n = number of samples.

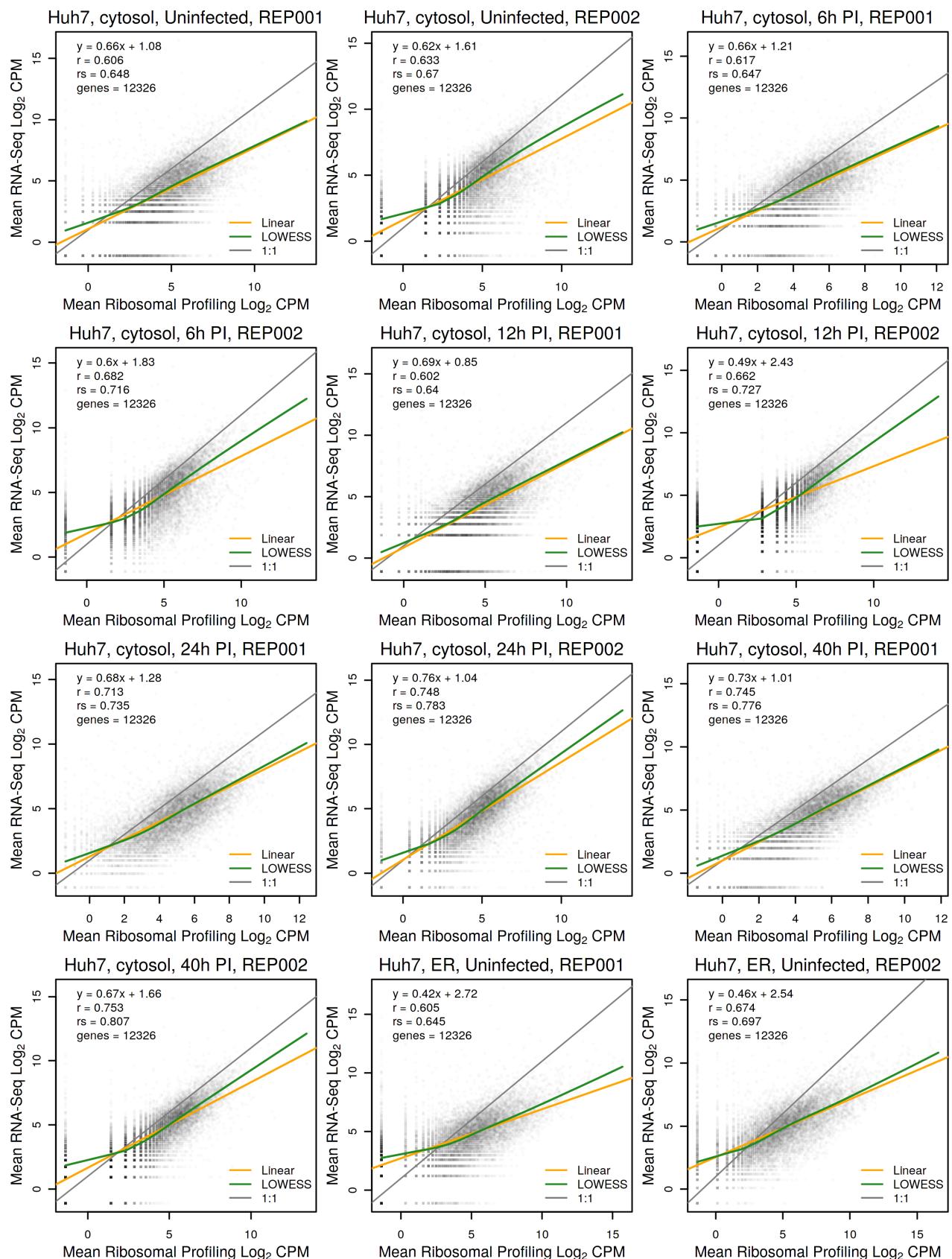


Figure 180: Scatterplots of \log_2 expression scatterplots between shared RNA-Seq and Ribosomal Profiling by sample. The union of the RNA-Seq and Ribosomal Profiling LCPM filtered gene sets are shown.

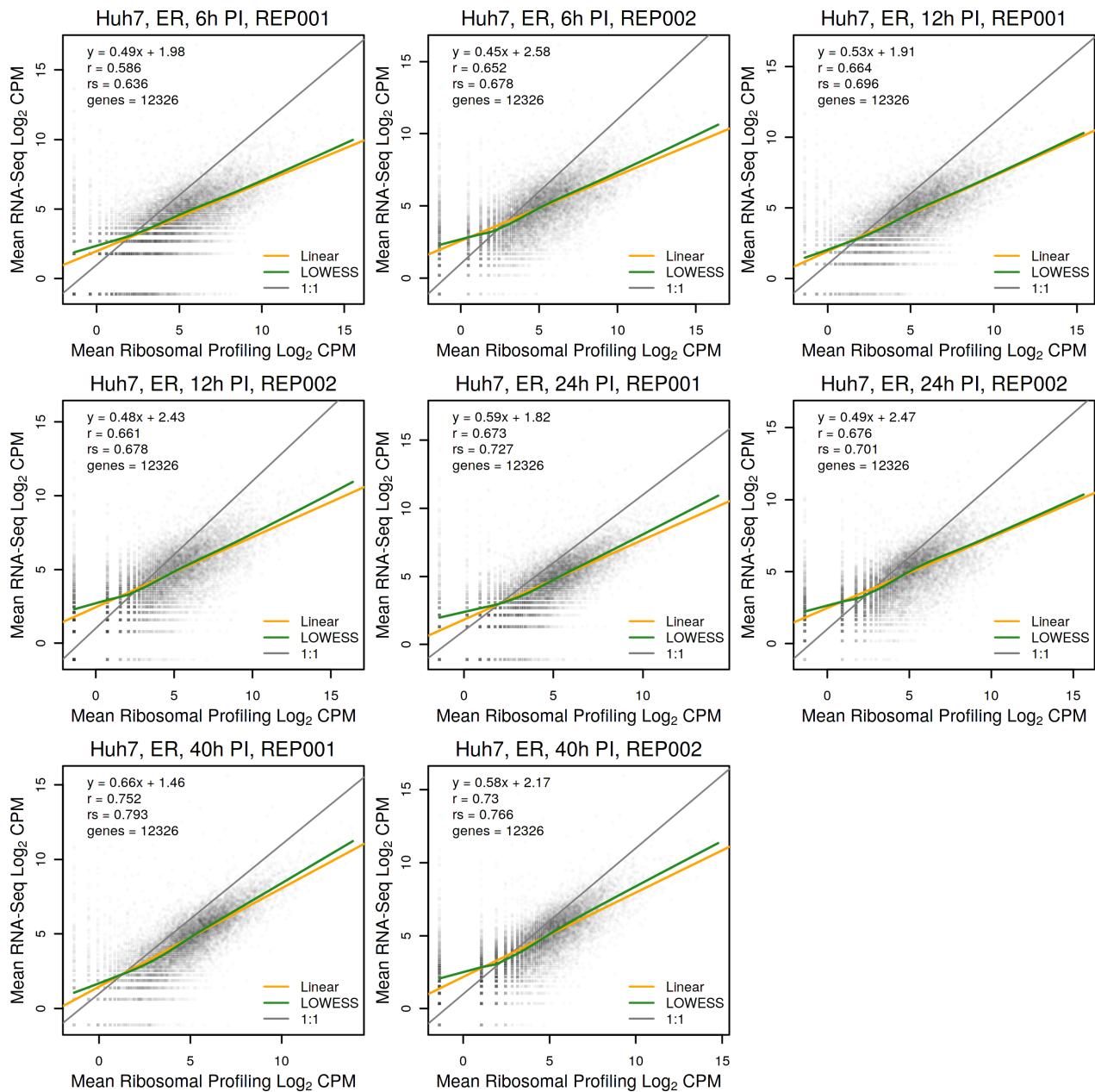


Figure 181: Scatterplots of \log_2 expression scatterplots between shared RNA-Seq and Ribosomal Profiling by sample. The union of the RNA-Seq and Ribosomal Profiling LCPM filtered gene sets are shown.

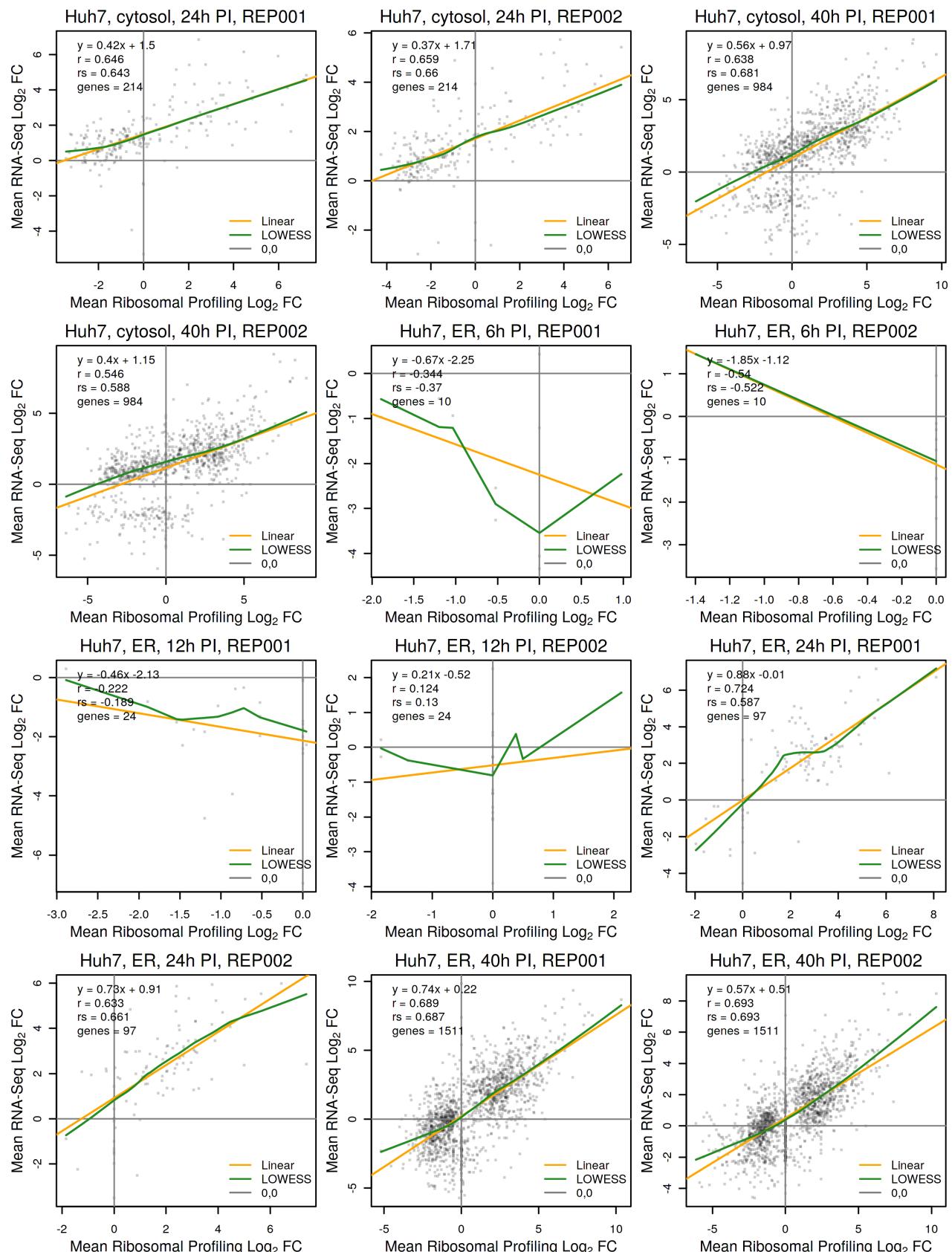


Figure 182: Scatterplots of the union of differentially expressed genes log₂ fold change scatterplots between shared RNA-Seq and Ribosomal Profiling by sample.

3.2 Tables

Category/Chromosome	#Genes
mitochondrial ribosomal RNA (Mt_rRNA)	2
mitochondrial transfer RNA (Mt_tRNA)	22
ribosomal RNA (rRNA)	52
ribosomal RNA pseudogene (rRNA_pseudogene)	499
Total	575

Table 1: Number of excluded genes by gene type (RNA-Seq).

	Min	Q1	Median	Mean	Q3	Max	SD	MAD	N
Total Mapped Reads [10^6]	1.87	2.40	3.42	4.25	5.36	11.71	2.58	1.88	20
Unmapped Reads [10^6]	3.61	5.40	6.50	7.91	7.76	23.84	4.86	1.88	20
Uniquely Mapped Reads [10^6]	0.82	1.10	1.55	2.02	2.56	6.46	1.39	0.78	20
Uniquely Mapped Reads [%]	39.00	44.00	46.75	46.48	48.50	55.20	3.68	3.63	20
Counted Fragments [10^6]	0.30	0.58	0.80	1.05	1.41	3.46	0.75	0.55	20
Uniquely Mapped Reads + Strand [10^6]	0.36	0.50	0.74	0.95	1.18	2.94	0.64	0.42	20
Uniquely Mapped Reads - Strand [10^6]	0.41	0.62	0.80	1.07	1.38	3.52	0.75	0.37	20
Median GC [%]	53.12	54.88	55.72	55.67	56.56	58.33	1.28	1.26	20
Mean GC [%]	51.53	52.51	53.59	53.45	54.15	56.06	1.13	1.16	20

Table 2: Summary human reference genome alignment statistics for study samples (RNA-Seq, Huh7)

	Min	Q1	Median	Mean	Q3	Max	SD	MAD	N
Exon Tags [%]	58.68	68.96	74.33	72.59	78.51	79.54	6.82	6.61	20
Intron Tags [%]	14.01	15.42	15.83	16.60	17.74	20.65	1.97	1.52	20
Intergenic Tags [%]	5.44	6.55	9.42	10.82	14.66	20.66	4.98	4.65	20
CDS Exons Tags Per Kb	10.08	14.91	26.55	31.29	41.04	81.29	18.83	17.27	20
Intron Tags Per Kb	0.21	0.30	0.38	0.48	0.57	1.42	0.31	0.17	20
3' UTR Tags Per Kb	1.55	2.52	4.64	5.64	6.62	20.63	4.46	3.16	20
5' UTR Tags Per Kb	1.19	2.05	3.25	3.97	5.38	11.54	2.48	2.09	20
TSS upstream 10Kb Tags Per Kb	0.30	0.48	0.66	0.90	0.88	3.20	0.77	0.30	20
TES downstream 10Kb Tags Per Kb	0.36	0.57	0.79	1.02	1.01	3.32	0.81	0.33	20
Splicing Events [10^5]	1.33	1.77	2.71	3.63	4.68	13.39	2.87	1.62	20
Splicing Junctions [10^5]	0.15	0.26	0.33	0.37	0.49	0.81	0.16	0.19	20

Table 3: Summary human reference gene model alignment statistics for study samples (RNA-Seq, Huh7)

	#Genes
Huh7	13529

Table 4: Number of genes that passed the low expression cut off (RNA-Seq).

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (6h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Ad- justed P- Value
ENSG00000279123		novel transcript	TEC	9.45	10.22	35.68	0.00	0.00	
ENSG00000201644			misc RNA	5.96	9.15	37.34	0.00	0.00	

Table 5: Genes differentially expressed at 6h PI compared to pre-treatment (RNA-Seq, Huh7, cytosol). Sorted by descending absolute \log_2 fold change (Day 6 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (12h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Ad- justed P- Value
ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	misc RNA	3.82	13.32	31.90	0.00	0.00	

Table 6: Genes differentially expressed at 12h PI compared to pre-treatment (RNA-Seq, Huh7, cytosol). Sorted by descending absolute \log_2 fold change (Day 12 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Ad- justed P- Value
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	8.58	4.64	43.03	0.00	0.00	
ENSG00000115902	SLC1A4	solute carrier family 1 member 4 [Source:HGNC Symbol;Acc:HGNC:10942]	protein coding	8.28	4.38	42.76	0.00	0.00	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	7.90	4.06	34.21	0.00	0.00	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	7.35	3.61	26.14	0.00	0.00	
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	protein coding	7.10	3.41	19.52	0.00	0.00	
ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	protein coding	7.00	3.33	20.81	0.00	0.00	
ENSG00000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]	protein coding	6.80	3.17	17.37	0.00	0.00	
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	6.57	3.00	14.70	0.00	0.01	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-6.49	5.02	17.74	0.00	0.00	
ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	protein coding	6.42	2.88	14.92	0.00	0.01	
ENSG00000278701			misc RNA	-6.37	2.25	16.37	0.00	0.00	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	6.31	2.79	14.08	0.00	0.01	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	6.28	2.77	12.70	0.00	0.02	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	6.27	2.78	13.31	0.00	0.02	
ENSG00000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]	protein coding	6.20	2.72	13.64	0.00	0.01	
ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	protein coding	6.14	2.68	12.75	0.00	0.02	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	6.10	2.64	12.00	0.00	0.02	
ENSG00000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]	protein coding	6.07	2.63	12.52	0.00	0.02	
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	6.07	2.64	10.55	0.00	0.04	
ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	6.03	2.60	11.35	0.00	0.03	
ENSG00000225455	TPI1P4	triosephosphate isomerase 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:38071]	processed pseudogene	-5.94	1.85	14.36	0.00	0.01	
ENSG00000169131	ZNF354A	zinc finger protein 354A [Source:HGNC Symbol;Acc:HGNC:11628]	protein coding	5.93	2.53	11.32	0.00	0.03	
ENSG00000110013	SIAE	sialic acid acetyltransferase [Source:HGNC Symbol;Acc:HGNC:18187]	protein coding	5.90	2.51	11.17	0.00	0.03	
ENSG00000228439	TSTD3	thiosulfate sulfurtransferase like domain containing 3 [Source:HGNC Symbol;Acc:HGNC:40910]	protein coding	5.89	2.50	11.32	0.00	0.03	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	5.10	4.28	36.83	0.00	0.00	
ENSG0000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	4.98	4.17	28.15	0.00	0.00	
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	4.79	4.83	44.37	0.00	0.00	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	4.76	5.24	48.74	0.00	0.00	
ENSG00000038002	AGA	aspartyl/glycosaminidase [Source:HGNC Symbol;Acc:HGNC:318]	protein coding	4.64	4.74	39.99	0.00	0.00	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	4.61	6.03	61.84	0.00	0.00	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	unprocessed pseudogene	4.53	3.85	24.14	0.00	0.00	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	4.43	6.71	67.67	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000155304	HSPA13	heat shock protein family A (Hsp70) member 13 [Source:HGNC Symbol;Acc:HGNC:11375]	protein coding	4.43	4.99	44.23	0.00	0.00	
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	protein coding	4.39	3.73	23.01	0.00	0.00	
ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]	protein coding	4.28	3.61	21.50	0.00	0.00	
ENSG00000145050	MANF	mesencephalic astrocyte derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:15461]	protein coding	4.23	7.30	64.62	0.00	0.00	
ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	misc RNA	4.16	13.64	19.95	0.00	0.00	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	3.92	4.07	26.75	0.00	0.00	
ENSG00000128590	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC Symbol;Acc:HGNC:6968]	protein coding	3.82	6.06	50.94	0.00	0.00	
ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	protein coding	3.75	4.80	32.88	0.00	0.00	
ENSG00000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]	processed pseudogene	3.74	3.95	23.66	0.00	0.00	
ENSG00000128965	CHAC1	Chac glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	3.72	4.00	18.04	0.00	0.00	
ENSG00000229314	ORM1	orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]	protein coding	3.71	3.20	13.46	0.00	0.01	
ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]	protein coding	3.65	4.34	28.46	0.00	0.00	
ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma 1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	protein coding	3.64	3.15	12.88	0.00	0.02	
ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]	protein coding	3.64	8.27	45.98	0.00	0.00	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	3.56	3.05	12.17	0.00	0.02	
ENSG00000153132	CLGN	calmegin [Source:HGNC Symbol;Acc:HGNC:2060]	protein coding	3.53	4.88	33.93	0.00	0.00	
ENSG00000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]	protein coding	3.51	3.05	11.84	0.00	0.03	
ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	protein coding	3.50	3.01	11.62	0.00	0.03	
ENSG00000167004	PDIA3	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	protein coding	3.46	6.03	51.80	0.00	0.00	
ENSG00000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]	protein coding	3.42	5.35	31.76	0.00	0.00	
ENSG00000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]	protein coding	3.40	4.10	22.16	0.00	0.00	
ENSG00000275090	RN7SL296P	RNA, 7SL, cytoplasmic 296, pseudogene [Source:HGNC Symbol;Acc:HGNC:46312]	misc RNA	3.40	13.00	12.14	0.00	0.02	

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ENSG00000155660	PDIA4	protein disulfide isomerase family A member 4 [Source:HGNC Symbol;Acc:HGNC:30167]	protein coding	3.39	6.84	49.07	0.00	0.00	
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	protein coding	3.35	3.61	15.82	0.00	0.01	
ENSG00000071553	ATP6AP1	ATPase H ⁺ transporting accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:868]	protein coding	3.35	3.66	13.65	0.00	0.01	
ENSG00000197746	PSAP	prosaposin [Source:HGNC Symbol;Acc:HGNC:9498]	protein coding	3.33	7.06	50.39	0.00	0.00	
ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]	protein coding	3.26	9.54	29.42	0.00	0.00	
ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	protein coding	3.24	4.01	21.05	0.00	0.00	
ENSG00000244038	DDOST	dolichyl-diphospholigosaccharide–protein glycosyltransferase non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:2728]	protein coding	3.20	5.59	40.88	0.00	0.00	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	3.20	4.61	26.11	0.00	0.00	
ENSG00000213574	LDHAP5	lactate dehydrogenase A pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:6540]	processed pseudogene	-3.19	2.43	10.67	0.00	0.04	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	3.18	5.15	33.12	0.00	0.00	
ENSG00000044574	HSPA5	heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238]	protein coding	3.17	6.47	41.91	0.00	0.00	
ENSG00000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]	protein coding	3.16	3.54	14.23	0.00	0.01	
ENSG00000142192	APP	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]	protein coding	3.15	4.78	29.41	0.00	0.00	
ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	protein coding	3.14	4.23	23.27	0.00	0.00	
ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]	protein coding	3.11	3.46	13.72	0.00	0.01	
ENSG00000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]	protein coding	3.10	3.90	18.70	0.00	0.00	
ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]	protein coding	3.09	4.19	21.62	0.00	0.00	
ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]	protein coding	3.08	3.44	13.01	0.00	0.02	
ENSG00000187688	TRPV2	transient receptor potential cation channel subfamily V member 2 [Source:HGNC Symbol;Acc:HGNC:18082]	protein coding	3.07	3.38	10.81	0.00	0.04	
ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]	protein coding	3.04	3.45	12.51	0.00	0.02	
ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	protein coding	3.03	3.40	13.43	0.00	0.01	

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ENSG00000133135	RNF128	ring finger protein 128, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:21153]	protein coding	3.03	4.72	26.36	0.00	0.00	
ENSG0000068697	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]	protein coding	2.97	4.90	23.19	0.00	0.00	
ENSG0000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	2.97	5.15	26.94	0.00	0.00	
ENSG00000280670	CCDC163	coiled-coil domain containing 163 [Source:HGNC Symbol;Acc:HGNC:27003]	protein coding	2.96	3.35	12.19	0.00	0.02	
ENSG00000132031	MATN3	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]	protein coding	2.96	3.35	11.55	0.00	0.03	
ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]	protein coding	2.95	4.62	25.50	0.00	0.00	
ENSG00000135404	CD63	CD63 molecule [Source:HGNC Symbol;Acc:HGNC:1692]	protein coding	2.94	5.92	40.17	0.00	0.00	
ENSG00000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]	protein coding	2.94	6.65	45.19	0.00	0.00	
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	protein coding	2.92	3.79	15.78	0.00	0.01	
ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]	protein coding	2.90	5.07	28.18	0.00	0.00	
ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]	protein coding	2.89	6.36	37.02	0.00	0.00	
ENSG00000135677	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4422]	protein coding	2.88	6.22	39.16	0.00	0.00	
ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	protein coding	2.85	3.27	10.66	0.00	0.04	
ENSG00000157181	ODR4	odr-4 GPCR localization factor homolog [Source:HGNC Symbol;Acc:HGNC:24299]	protein coding	2.83	4.71	25.15	0.00	0.00	
ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]	protein coding	2.83	3.65	13.51	0.00	0.01	
ENSG00000131871	SELENOS	selenoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]	protein coding	2.82	3.98	17.80	0.00	0.00	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	2.81	4.66	23.41	0.00	0.00	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	2.80	6.53	30.96	0.00	0.00	
ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]	protein coding	2.78	7.24	37.13	0.00	0.00	
ENSG00000166794	PPIB	peptidyl prolyl isomerase B [Source:HGNC Symbol;Acc:HGNC:9255]	protein coding	2.78	5.44	31.31	0.00	0.00	
ENSG00000149428	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]	protein coding	2.78	6.22	36.30	0.00	0.00	
ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]	protein coding	2.77	3.21	10.25	0.00	0.05	
ENSG00000001630	CYP51A1	cytochrome P450 family 51 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2649]	protein coding	2.76	3.20	10.31	0.00	0.05	

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ENSG00000104805	NUCB1	nucleobindin 1 [Source:HGNC Symbol;Acc:HGNC:8043]	Sym-	protein coding	2.76	3.68	12.70	0.00	0.02		
ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]	Sym-	protein coding	2.73	8.41	28.56	0.00	0.00		
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	2.72	5.78	34.52	0.00	0.00			
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	2.71	5.03	25.01	0.00	0.00			
ENSG00000120697	ALG5	ALG5, dolichyl-phosphate beta-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20266]	protein coding	2.69	4.81	22.71	0.00	0.00			
ENSG00000100532	CGRRF1	cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:HGNC:15528]	protein coding	2.68	4.84	21.71	0.00	0.00			
ENSG00000125304	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11865]	protein coding	2.67	5.76	31.63	0.00	0.00			
ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]	protein coding	2.64	5.06	24.31	0.00	0.00			
ENSG00000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	protein coding	2.63	3.59	10.52	0.00	0.04			
ENSG00000071537	SEL1L	SEL1L, ERAD E3 ligase adaptor subunit [Source:HGNC Symbol;Acc:HGNC:10717]	protein coding	2.63	5.57	28.61	0.00	0.00			
ENSG00000168938	PPIC	peptidyl prolyl isomerase C [Source:HGNC Symbol;Acc:HGNC:9256]	protein coding	2.63	3.50	11.80	0.00	0.03			
ENSG00000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]	protein coding	2.63	5.51	27.37	0.00	0.00			
ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]	protein coding	2.61	5.58	26.48	0.00	0.00			
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	2.59	4.90	21.42	0.00	0.00			
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	2.56	6.61	30.96	0.00	0.00			
ENSG00000152749	GPR180	G protein-coupled receptor 180 [Source:HGNC Symbol;Acc:HGNC:28899]	protein coding	2.54	3.47	10.92	0.00	0.04			
ENSG00000023318	ERP44	endoplasmic reticulum protein 44 [Source:HGNC Symbol;Acc:HGNC:18311]	protein coding	2.53	4.77	17.00	0.00	0.00			
ENSG00000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]	protein coding	2.52	4.68	19.73	0.00	0.00			
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	2.52	4.75	18.78	0.00	0.00			
ENSG0000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]	protein coding	2.51	4.57	17.79	0.00	0.00			
ENSG00000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]	protein coding	2.49	5.14	21.34	0.00	0.00			
ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]	protein coding	2.48	5.80	28.25	0.00	0.00			
ENSG00000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	protein coding	2.48	3.46	10.37	0.00	0.05			

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ENSG00000177058	SLC38A9	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]	protein coding	2.48	3.43	10.53	0.00	0.04	
ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]	protein coding	2.48	4.11	13.86	0.00	0.01	
ENSG00000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]	protein coding	2.47	3.38	10.19	0.00	0.05	
ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]	protein coding	2.46	5.19	15.06	0.00	0.01	
ENSG00000118271	TTR	transthyretin [Source:HGNC Symbol;Acc:HGNC:12405]	protein coding	2.45	5.25	22.70	0.00	0.00	
ENSG00000172071	EIF2AK3	eukaryotic translation initiation factor 2 alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]	protein coding	2.44	3.96	10.81	0.00	0.04	
ENSG00000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]	protein coding	2.44	7.68	27.87	0.00	0.00	
ENSG00000147649	MTDH	metadherin [Source:HGNC Symbol;Acc:HGNC:29608]	protein coding	2.42	5.85	29.90	0.00	0.00	
ENSG00000135127	BICDL1	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	protein coding	-2.42	3.50	16.20	0.00	0.00	
ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]	protein coding	2.42	9.43	18.65	0.00	0.00	
ENSG00000108588	CCDC47	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]	protein coding	2.42	4.89	18.99	0.00	0.00	
ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]	protein coding	2.41	5.25	15.13	0.00	0.01	
ENSG00000162407	PLPP3	phospholipid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:9229]	protein coding	2.41	4.37	17.42	0.00	0.00	
ENSG00000134970	TMED7	transmembrane p24 trafficking protein 7 [Source:HGNC Symbol;Acc:HGNC:24253]	protein coding	2.40	6.14	19.45	0.00	0.00	
ENSG00000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]	protein coding	2.39	6.30	27.30	0.00	0.00	
ENSG00000131507	NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:17592]	protein coding	2.38	5.29	20.84	0.00	0.00	
ENSG00000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]	protein coding	2.38	4.74	17.87	0.00	0.00	
ENSG00000123384	LRP1	LDL receptor related protein 1 [Source:HGNC Symbol;Acc:HGNC:6692]	protein coding	2.38	6.57	28.24	0.00	0.00	
ENSG00000143870	PDIA6	protein disulfide isomerase family A member 6 [Source:HGNC Symbol;Acc:HGNC:30168]	protein coding	2.37	6.93	24.77	0.00	0.00	
ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]	protein coding	2.37	4.79	18.87	0.00	0.00	
ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]	protein coding	2.36	6.57	31.00	0.00	0.00	
ENSG00000169359	SLC33A1	solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95]	protein coding	2.35	5.25	18.45	0.00	0.00	
ENSG00000117500	TMED5	transmembrane p24 trafficking protein 5 [Source:HGNC Symbol;Acc:HGNC:24251]	protein coding	2.35	7.32	25.87	0.00	0.00	

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ENSG00000074695	LMAN1	lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:6631]	protein coding	2.34	6.28	29.40	0.00	0.00	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	2.34	5.91	20.50	0.00	0.00	
ENSG00000012174	MBTPS2	membrane bound transcription factor peptidase, site 2 [Source:HGNC Symbol;Acc:HGNC:15455]	protein coding	2.34	4.14	12.47	0.00	0.02	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	2.34	3.67	10.93	0.00	0.04	
ENSG00000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]	protein coding	2.33	6.19	30.52	0.00	0.00	
ENSG00000136986	DERL1	derlin 1 [Source:HGNC Symbol;Acc:HGNC:28454]	protein coding	2.33	4.43	14.71	0.00	0.01	
ENSG00000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	protein coding	2.32	3.92	11.03	0.00	0.04	
ENSG00000106927	AMBP	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]	protein coding	2.32	7.19	27.81	0.00	0.00	
ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]	protein coding	2.29	5.36	20.31	0.00	0.00	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	2.28	3.89	11.69	0.00	0.03	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	2.27	4.26	10.84	0.00	0.04	
ENSG00000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]	protein coding	2.27	7.70	25.47	0.00	0.00	
ENSG00000147852	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]	protein coding	2.27	4.05	12.83	0.00	0.02	
ENSG00000118523	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:2500]	protein coding	2.26	4.58	16.99	0.00	0.00	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	2.25	4.28	15.25	0.00	0.01	
ENSG00000134285	FKBP11	FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:18624]	protein coding	2.25	4.55	16.38	0.00	0.00	
ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]	protein coding	2.23	6.58	29.21	0.00	0.00	
ENSG00000182220	ATP6AP2	ATPase H ⁺ transporting accessory protein 2 [Source:HGNC Symbol;Acc:HGNC:18305]	protein coding	2.23	4.73	16.09	0.00	0.00	
ENSG00000112697	TMEM30A	transmembrane protein 30A [Source:HGNC Symbol;Acc:HGNC:16667]	protein coding	2.23	5.05	18.18	0.00	0.00	
ENSG00000111897	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:HGNC:13464]	protein coding	2.22	5.71	24.03	0.00	0.00	
ENSG00000164266	SPINK1	serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11244]	protein coding	2.21	6.88	28.74	0.00	0.00	
ENSG00000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]	protein coding	2.21	4.72	16.87	0.00	0.00	
ENSG00000145730	PAM	peptidylglycine alpha-amidating monoxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	protein coding	2.20	4.54	16.09	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]	protein coding	2.20	4.18	14.35	0.00	0.01	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	2.19	5.75	24.61	0.00	0.00	
ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	protein coding	2.19	5.73	23.82	0.00	0.00	
ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]	protein coding	2.19	5.63	21.08	0.00	0.00	
ENSG00000149485	FADS1	fatty acid desaturase 1 [Source:HGNC Symbol;Acc:HGNC:3574]	protein coding	2.16	5.88	23.27	0.00	0.00	
ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	protein coding	2.16	8.24	18.41	0.00	0.00	
ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]	protein coding	2.15	5.36	19.94	0.00	0.00	
ENSG00000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]	protein coding	2.15	4.14	11.60	0.00	0.03	
ENSG00000101856	PGRMC1	progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:HGNC:16090]	protein coding	2.15	5.98	24.11	0.00	0.00	
ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]	protein coding	2.15	9.04	16.65	0.00	0.00	
ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]	protein coding	2.14	4.62	15.84	0.00	0.01	
ENSG00000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]	protein coding	2.13	4.32	12.43	0.00	0.02	
ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	protein coding	2.13	4.21	10.45	0.00	0.04	
ENSG00000164733	CTSB	cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]	protein coding	2.13	6.10	26.30	0.00	0.00	
ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]	protein coding	2.12	4.16	13.46	0.00	0.01	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	2.12	5.79	18.81	0.00	0.00	
ENSG0000008311	AASS	amino adipate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]	protein coding	2.12	4.12	12.79	0.00	0.02	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	2.12	6.52	22.73	0.00	0.00	
ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]	protein coding	2.11	4.66	12.45	0.00	0.02	
ENSG00000157637	SLC38A10	solute carrier family 38 member 10 [Source:HGNC Symbol;Acc:HGNC:28237]	protein coding	2.11	3.72	10.23	0.00	0.05	
ENSG00000120519	SLC10A7	solute carrier family 10 member 7 [Source:HGNC Symbol;Acc:HGNC:23088]	protein coding	2.10	4.14	13.06	0.00	0.02	
ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	protein coding	2.10	5.71	22.00	0.00	0.00	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	2.10	5.51	18.87	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000115380	EFEMP1	EGF containing fibulin extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3218]	protein coding	2.07	5.27	15.41	0.00	0.01	
ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]	protein coding	2.07	5.12	13.35	0.00	0.02	
ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]	protein coding	2.07	4.14	12.34	0.00	0.02	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	2.06	4.77	13.83	0.00	0.01	
ENSG00000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]	protein coding	2.06	4.32	13.10	0.00	0.02	
ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]	protein coding	2.05	8.52	15.99	0.00	0.01	
ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]	protein coding	2.05	5.67	16.42	0.00	0.00	
ENSG00000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	protein coding	2.05	5.28	15.90	0.00	0.01	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	2.05	4.66	15.90	0.00	0.01	
ENSG00000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]	protein coding	2.05	8.33	17.56	0.00	0.00	
ENSG00000118217	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:791]	protein coding	2.05	5.03	15.89	0.00	0.01	
ENSG00000164815	ORC5	origin recognition complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:8491]	protein coding	2.05	5.75	18.79	0.00	0.00	
ENSG00000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]	protein coding	2.05	5.37	18.03	0.00	0.00	
ENSG00000140391	TSPAN3	tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]	protein coding	2.05	6.23	24.74	0.00	0.00	
ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]	protein coding	2.04	6.62	24.26	0.00	0.00	
ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]	protein coding	2.04	5.60	20.42	0.00	0.00	
ENSG00000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	protein coding	2.03	4.72	15.19	0.00	0.01	
ENSG00000239224	RN7SL546P	RNA, 7SL, cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]	misc RNA	2.03	10.68	10.32	0.00	0.05	
ENSG00000124783	SSR1	signal sequence receptor subunit 1 [Source:HGNC Symbol;Acc:HGNC:11323]	protein coding	2.02	5.82	21.39	0.00	0.00	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	2.02	5.02	15.12	0.00	0.01	
ENSG00000147257	GPC3	glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]	protein coding	2.01	6.60	22.61	0.00	0.00	
ENSG00000067167	TRAM1	translocation associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:20568]	protein coding	2.01	7.27	20.07	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]	protein coding	2.00	6.68	24.42	0.00	0.00	

Table 7: Genes differentially expressed at 24h PI compared to pre-treatment (RNA-Seq, Huh7, cytosol). Sorted by descending absolute \log_2 fold change (Day 24 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	10.16	6.83	120.10	0.00	0.00	
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	protein coding	10.08	6.76	132.46	0.00	0.00	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	10.01	6.69	128.48	0.00	0.00	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	9.14	5.86	99.63	0.00	0.00	
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	9.10	5.81	80.78	0.00	0.00	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	8.56	5.31	63.57	0.00	0.00	
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	8.40	5.16	72.45	0.00	0.00	
ENSG00000115902	SLC1A4	solute carrier family 1 member 4 [Source:HGNC Symbol;Acc:HGNC:10942]	protein coding	8.39	5.15	68.90	0.00	0.00	
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	8.15	7.96	132.00	0.00	0.00	
ENSG00000204592	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:HGNC:4962]	protein coding	7.94	4.75	50.36	0.00	0.00	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	7.89	4.69	42.00	0.00	0.00	
ENSG00000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]	protein coding	7.77	4.60	54.17	0.00	0.00	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	7.73	4.56	46.95	0.00	0.00	
ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	protein coding	7.67	4.50	46.71	0.00	0.00	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	7.56	4.41	41.65	0.00	0.00	
ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	protein coding	7.53	4.38	39.31	0.00	0.00	
ENSG00000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]	protein coding	7.52	4.38	46.57	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	protein coding	7.15	4.06	35.11	0.00	0.00	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	7.15	7.44	120.95	0.00	0.00	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	6.93	8.21	118.12	0.00	0.00	
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	protein coding	6.91	3.87	32.94	0.00	0.00	
ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	protein coding	6.67	3.67	22.94	0.00	0.00	
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	protein coding	6.64	3.66	25.33	0.00	0.00	
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3797]	protein coding	6.59	3.62	24.36	0.00	0.00	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	6.55	5.57	79.82	0.00	0.00	
ENSG0000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	6.44	3.51	22.50	0.00	0.00	
ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	protein coding	6.44	3.50	23.28	0.00	0.00	
ENSG0000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	protein coding	6.20	3.34	17.26	0.00	0.00	
ENSG00000156858	PRR14	proline rich 14 [Source:HGNC Symbol;Acc:HGNC:28458]	protein coding	6.15	3.29	18.81	0.00	0.00	
ENSG0000070718	AP3M2	adaptor related protein complex 3 subunit mu 2 [Source:HGNC Symbol;Acc:HGNC:570]	protein coding	-6.14	3.35	16.12	0.00	0.00	
ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	protein coding	6.14	3.29	18.93	0.00	0.00	
ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]	protein coding	6.13	3.28	18.68	0.00	0.00	
ENSG0000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	protein coding	6.12	3.28	18.76	0.00	0.00	
ENSG0000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	protein coding	6.06	6.83	114.58	0.00	0.00	
ENSG00000121064	SCPEP1	serine carboxypeptidase 1 [Source:HGNC Symbol;Acc:HGNC:29507]	protein coding	6.06	3.23	17.70	0.00	0.00	
ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	protein coding	6.01	3.22	13.79	0.00	0.00	
ENSG0000079215	SLC1A3	solute carrier family 1 member 3 [Source:HGNC Symbol;Acc:HGNC:10941]	protein coding	5.99	3.18	15.51	0.00	0.00	
ENSG00000165272	AQP3	aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:HGNC:636]	protein coding	5.98	3.17	15.81	0.00	0.00	
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	protein coding	5.96	3.17	16.08	0.00	0.00	
ENSG0000090674	MCOLN1	mucolipin 1 [Source:HGNC Symbol;Acc:HGNC:13356]	protein coding	5.95	3.16	17.09	0.00	0.00	

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ENSG00000188760	TMEM198	transmembrane protein 198 [Source:HGNC Symbol;Acc:HGNC:33704]	protein coding	5.95	3.16	16.32	0.00	0.00	
ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]	protein coding	5.90	3.11	15.06	0.00	0.00	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	5.89	7.36	110.66	0.00	0.00	
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	5.87	4.96	54.28	0.00	0.00	
ENSG00000260804	LINC01963	long intergenic non-protein coding RNA 1963 [Source:HGNC Symbol;Acc:HGNC:25283]	lincRNA	-5.78	3.09	13.29	0.00	0.00	
ENSG00000157470	FAM81A	family with sequence similarity 81 member A [Source:HGNC Symbol;Acc:HGNC:28379]	protein coding	-5.74	2.96	11.88	0.00	0.01	
ENSG00000234745	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932]	protein coding	5.73	2.98	10.28	0.00	0.02	
ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	protein coding	5.70	4.80	49.39	0.00	0.00	
ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	protein coding	5.69	2.97	11.89	0.00	0.01	
ENSG00000173480	ZNF417	zinc finger protein 417 [Source:HGNC Symbol;Acc:HGNC:20646]	protein coding	5.68	3.02	9.56	0.00	0.02	
ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	protein coding	-5.66	3.11	9.51	0.00	0.02	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	5.65	6.73	110.08	0.00	0.00	
ENSG00000165121		kinesin family member 27 (KIF27) pseudogene	transcribed unprocessed pseudo-gene	5.63	2.96	11.50	0.00	0.01	
ENSG00000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	protein coding	5.58	2.90	10.32	0.00	0.02	
ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]	protein coding	5.58	2.90	10.39	0.00	0.01	
ENSG00000142408	CACNG8	calcium voltage-gated channel auxiliary subunit gamma 8 [Source:HGNC Symbol;Acc:HGNC:13628]	protein coding	5.58	2.90	10.83	0.00	0.01	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	5.56	7.73	96.88	0.00	0.00	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	5.55	5.42	52.28	0.00	0.00	
ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	protein coding	5.54	2.89	11.09	0.00	0.01	
ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	protein coding	5.54	2.89	11.16	0.00	0.01	
ENSG00000268043	NBPF12	NBPF member 12 [Source:HGNC Symbol;Acc:HGNC:24297]	protein coding	5.54	2.89	12.28	0.00	0.01	

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ENSG00000038002	AGA	aspartylglucosaminidase [Source:HGNC Symbol;Acc:HGNC:318]	[Source:HGNC Symbol;Acc:HGNC:318]	Sym-	protein coding	5.51	5.47	61.97	0.00	0.00	
ENSG00000278701					misc RNA	-5.49	2.95	9.60	0.00	0.02	
ENSG00000265641	MIR3929	microRNA 3929	[Source:HGNC Symbol;Acc:HGNC:38945]	Sym-	miRNA	5.48	2.88	9.80	0.00	0.02	
ENSG00000143753	DEGS1	delta 4-desaturase, sphingolipid 1	[Source:HGNC Symbol;Acc:HGNC:13709]	[Source:HGNC Symbol;Acc:HGNC:13709]	protein coding	5.45	2.87	8.54	0.00	0.03	
ENSG00000185339	TCN2	transcobalamin 2	[Source:HGNC Symbol;Acc:HGNC:11653]	Sym-	protein coding	5.44	2.82	9.51	0.00	0.02	
ENSG00000165655	ZNF503	zinc finger protein 503	[Source:HGNC Symbol;Acc:HGNC:23589]	Sym-	protein coding	5.44	2.82	9.70	0.00	0.02	
ENSG00000184697	CLDN6	claudin 6	[Source:HGNC Symbol;Acc:HGNC:2048]	[Source:HGNC Symbol;Acc:HGNC:2048]	protein coding	5.42	2.81	10.01	0.00	0.02	
ENSG00000229598	PRDX3P1	peroxiredoxin 3 pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:39264]	Sym-	processed pseudogene	-5.40	2.79	10.17	0.00	0.02	
ENSG00000162654	GBP4	guanylate binding protein 4	[Source:HGNC Symbol;Acc:HGNC:20480]	Sym-	protein coding	5.40	2.81	11.90	0.00	0.01	
ENSG00000171522	PTGER4	prostaglandin E receptor 4	[Source:HGNC Symbol;Acc:HGNC:9596]	Sym-	protein coding	5.39	2.81	10.51	0.00	0.01	
ENSG00000244722	RPSAP29	ribosomal protein SA pseudogene 29	[Source:HGNC Symbol;Acc:HGNC:36680]	[Source:HGNC Symbol;Acc:HGNC:36680]	processed pseudogene	-5.37	2.83	9.86	0.00	0.02	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1	[Source:HGNC Symbol;Acc:HGNC:18873]	[Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	5.36	7.31	95.08	0.00	0.00	
ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene)	[Source:HGNC Symbol;Acc:HGNC:4969]	[Source:HGNC Symbol;Acc:HGNC:4969]	unprocessed pseudogene	5.35	2.80	9.65	0.00	0.02	
ENSG0000075388	FGF4	fibroblast growth factor 4	[Source:HGNC Symbol;Acc:HGNC:3682]	Sym-	protein coding	5.35	2.80	9.07	0.00	0.03	
ENSG00000136826	KLF4	Kruppel like factor 4	[Source:HGNC Symbol;Acc:HGNC:6348]	Sym-	protein coding	5.34	6.15	84.08	0.00	0.00	
ENSG00000108602	ALDH3A1	aldehyde dehydrogenase 3 family member A1	[Source:HGNC Symbol;Acc:HGNC:405]	[Source:HGNC Symbol;Acc:HGNC:405]	protein coding	-5.29	2.72	8.99	0.00	0.03	
ENSG00000132846	ZBED3	zinc finger BED-type containing 3	[Source:HGNC Symbol;Acc:HGNC:20711]	[Source:HGNC Symbol;Acc:HGNC:20711]	protein coding	5.28	2.73	8.78	0.00	0.03	
ENSG00000187942	LDLRAD2	low density lipoprotein receptor class A domain containing 2	[Source:HGNC Symbol;Acc:HGNC:32071]	[Source:HGNC Symbol;Acc:HGNC:32071]	protein coding	-5.27	2.72	9.52	0.00	0.02	
ENSG00000280123		TEC			protein coding	-5.27	2.76	10.09	0.00	0.02	
ENSG00000204316	MRPL38	mitochondrial ribosomal protein L38	[Source:HGNC Symbol;Acc:HGNC:14033]	[Source:HGNC Symbol;Acc:HGNC:14033]	protein coding	-5.27	2.76	10.06	0.00	0.02	
ENSG00000179406	LINC00174	long intergenic non-protein coding RNA 174	[Source:HGNC Symbol;Acc:HGNC:27788]	[Source:HGNC Symbol;Acc:HGNC:27788]	processed transcript	5.26	2.73	9.58	0.00	0.02	
ENSG00000173456	RNF26	ring finger protein 26	[Source:HGNC Symbol;Acc:HGNC:14646]	[Source:HGNC Symbol;Acc:HGNC:14646]	protein coding	5.26	2.73	9.78	0.00	0.02	

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ENSG00000169131	ZNF354A	zinc finger protein 354A [Source:HGNC Symbol;Acc:HGNC:11628]	Sym-	protein coding	5.26	2.73	10.06	0.00	0.02	
ENSG00000198088	NUP62CL	nucleoporin 62 C-terminal like [Source:HGNC Symbol;Acc:HGNC:25960]	Sym-	protein coding	-5.25	2.76	9.00	0.00	0.03	
ENSG00000222376	RN7SKP152	RNA, 7SK small nuclear pseudogene 152 [Source:HGNC Symbol;Acc:HGNC:45876]	152	misc RNA	5.24	2.72	10.55	0.00	0.01	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	Sym-	protein coding	5.24	2.72	10.40	0.00	0.01	
ENSG00000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]	Sym-	protein coding	5.24	2.72	9.94	0.00	0.02	
ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	Sym-	protein coding	5.24	2.72	9.73	0.00	0.02	
ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]	Sym-	protein coding	5.19	5.14	54.77	0.00	0.00	
ENSG00000226803	ZNF451-AS1	ZNF451 regulatory antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:53824]	Sym-	antisense	-5.15	2.64	8.34	0.00	0.03	
ENSG00000236449	EEF1A1P17	novel transcript, antisense to WIPF1 and CHRNA1 eukaryotic translation elongation factor 1 alpha 1 pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37890]	Sym-	antisense processed	-5.15 -5.13	2.64 2.68	8.41 9.04	0.00	0.03	
ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	Sym-	protein coding	5.11	2.64	8.00	0.00	0.04	
ENSG00000117480	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:HGNC:3553]	Sym-	protein coding	5.10	2.64	8.84	0.00	0.03	
ENSG00000230647	EIF4G1	novel transcript	Sym-	lincRNA	5.09	2.64	8.11	0.00	0.04	
ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	Sym-	protein coding	5.09	2.64	8.22	0.00	0.03	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	Sym-	protein coding	5.09	4.28	37.52	0.00	0.00	
ENSG00000201910	RNU1-140P	RNA, U1 small nuclear 140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48482]	Sym-	snRNA	5.08	2.64	9.51	0.00	0.02	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	Sym-	protein coding	5.08	6.80	102.80	0.00	0.00	
ENSG00000099999	RNF215	ring finger protein 215 [Source:HGNC Symbol;Acc:HGNC:33434]	Sym-	protein coding	-5.07	2.62	7.88	0.01	0.04	
ENSG00000215375	MYL5	myosin light chain 5 [Source:HGNC Symbol;Acc:HGNC:7586]	Sym-	protein coding	5.07	2.63	8.65	0.00	0.03	
ENSG00000223467	CALM1P1	calmodulin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:1443]	Sym-	processed pseudogene	-5.07	2.62	8.18	0.00	0.04	
ENSG00000225455	TPI1P4	triosephosphate isomerase 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:38071]	Sym-	processed pseudogene	-5.06	2.62	8.39	0.00	0.03	
ENSG00000252294	RNU6-589P	RNA, U6 small nuclear 589, pseudogene [Source:HGNC Symbol;Acc:HGNC:47552]	Sym-	snRNA	5.05	2.63	7.92	0.00	0.04	

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ENSG00000185133	INPP5J	inositol polyphosphate-5-phosphatase [Source:HGNC Symbol;Acc:HGNC:8956]	J protein coding	5.05	2.63	7.68	0.01	0.04	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-5.03	5.32	11.51	0.00	0.01	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudo-gene	5.03	4.26	35.45	0.00	0.00	
ENSG00000198771	RCSD1	RCSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28310]	protein coding	-4.98	2.60	7.99	0.00	0.04	
ENSG00000177350	RPL13AP3	ribosomal protein L13a pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:23539]	transcribed processed pseudo-gene	-4.98	2.60	7.95	0.00	0.04	
ENSG00000267541	MTCO2P2	MT-CO2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:25354]	processed pseudo-gene	4.91	2.54	7.72	0.01	0.04	
ENSG00000223202	RN7SKP297	RNA, 7SK small nuclear pseudogene 297 [Source:HGNC Symbol;Acc:HGNC:46021]	misc RNA	4.91	2.54	7.85	0.01	0.04	
ENSG00000198727	MT-CYB	mitochondrially encoded cytochrome b [Source:HGNC Symbol;Acc:HGNC:7427]	protein coding	4.91	6.05	55.31	0.00	0.00	
ENSG00000179460	EEF1A1P27	eukaryotic translation elongation factor 1 alpha 1 pseudogene 27 [Source:HGNC Symbol;Acc:HGNC:37900]	processed pseudo-gene	-4.91	2.53	7.53	0.01	0.05	
ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	protein coding	4.90	5.33	57.83	0.00	0.00	
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	protein coding	4.89	4.15	32.05	0.00	0.00	
ENSG00000225630	MTND2P28	MT-ND2 pseudogene 28 [Source:HGNC Symbol;Acc:HGNC:42129]	unprocessed pseudo-gene	4.87	2.54	7.31	0.01	0.05	
ENSG00000155304	HSPA13	heat shock protein family A (Hsp70) member 13 [Source:HGNC Symbol;Acc:HGNC:11375]	protein coding	4.81	5.28	56.30	0.00	0.00	
ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	protein coding	4.80	4.04	32.12	0.00	0.00	
ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	4.80	4.84	42.52	0.00	0.00	
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	protein coding	4.67	3.98	27.37	0.00	0.00	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	4.67	7.94	69.13	0.00	0.00	
ENSG00000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]	protein coding	4.66	6.45	83.58	0.00	0.00	

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ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	4.66	5.80	71.12	0.00	0.00	
ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]	protein coding	4.65	3.96	27.34	0.00	0.00	
ENSG00000137821	LRRC49	leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:HGNC:25965]	protein coding	4.61	4.63	39.93	0.00	0.00	
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]	protein coding	4.59	5.05	45.29	0.00	0.00	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	4.56	5.06	42.93	0.00	0.00	
ENSG00000145050	MANF	mesencephalic astrocyte derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:15461]	protein coding	4.53	7.55	84.77	0.00	0.00	
ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]	misc RNA	4.53	10.04	13.05	0.00	0.01	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	4.52	3.82	25.82	0.00	0.00	
ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	misc RNA	4.51	13.97	27.78	0.00	0.00	
ENSG00000198888	MT-ND1	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 1 [Source:HGNC Symbol;Acc:HGNC:7455]	protein coding	4.47	5.04	36.59	0.00	0.00	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	4.47	6.40	84.32	0.00	0.00	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	4.46	6.37	82.87	0.00	0.00	
ENSG00000279123		novel transcript	TEC	4.46	5.43	22.18	0.00	0.00	
ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	protein coding	4.45	3.80	21.99	0.00	0.00	
ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	protein coding	4.42	4.44	26.22	0.00	0.00	
ENSG00000071553	ATP6AP1	ATPase H ⁺ transporting accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:868]	protein coding	4.41	4.47	37.25	0.00	0.00	
ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	protein coding	4.41	3.73	23.72	0.00	0.00	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	4.37	7.44	82.76	0.00	0.00	
ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	protein coding	4.37	4.40	32.67	0.00	0.00	
ENSG00000271394			misc RNA	4.36	5.71	17.96	0.00	0.00	
ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	protein coding	4.33	3.66	18.12	0.00	0.00	
ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	protein coding	4.32	3.70	22.16	0.00	0.00	

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ENSG00000198695	MT-ND6	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 6 [Source:HGNC Symbol;Acc:HGNC:7462]	protein coding	4.30	3.66	12.55	0.00	0.01	
ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]	protein coding	4.29	6.95	63.70	0.00	0.00	
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	protein coding	4.28	5.19	46.29	0.00	0.00	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	4.27	7.82	76.42	0.00	0.00	
ENSG00000162344	FGF19	fibroblast growth factor 19 [Source:HGNC Symbol;Acc:HGNC:3675]	protein coding	4.27	3.67	19.70	0.00	0.00	
ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]	protein coding	4.27	3.63	17.72	0.00	0.00	
ENSG00000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]	protein coding	4.27	3.66	21.26	0.00	0.00	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	4.25	6.15	74.11	0.00	0.00	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	4.23	5.87	61.82	0.00	0.00	
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	4.22	6.29	76.85	0.00	0.00	
ENSG00000166311	SMPD1	sphingomyelin phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:11120]	protein coding	4.21	4.27	32.86	0.00	0.00	
ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	protein coding	4.20	4.30	26.48	0.00	0.00	
ENSG00000128590	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC Symbol;Acc:HGNC:6968]	protein coding	4.19	6.34	71.81	0.00	0.00	
ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]	protein coding	4.18	8.77	63.65	0.00	0.00	
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	protein coding	4.17	4.24	31.35	0.00	0.00	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	4.17	6.74	83.01	0.00	0.00	
ENSG00000198712	MT-CO2	mitochondrially encoded cytochrome c oxidase II [Source:HGNC Symbol;Acc:HGNC:7421]	protein coding	4.16	6.62	59.94	0.00	0.00	
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	protein coding	4.16	4.23	31.17	0.00	0.00	
ENSG00000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]	processed pseudo-gene	4.15	4.25	31.67	0.00	0.00	
ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	4.14	8.72	61.62	0.00	0.00	
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	4.14	6.57	80.56	0.00	0.00	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	4.11	8.22	60.20	0.00	0.00	

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ENSG00000142089	IFITM3	interferon induced transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:5414]	protein coding	4.10	4.67	39.24	0.00	0.00	
ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]	protein coding	4.10	3.51	17.77	0.00	0.00	
ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]	protein coding	4.09	7.39	72.66	0.00	0.00	
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	4.08	7.20	73.70	0.00	0.00	
ENSG00000135677	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4422]	protein coding	4.06	7.22	75.63	0.00	0.00	
ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]	protein coding	4.01	4.56	36.09	0.00	0.00	
ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	protein coding	3.96	6.11	62.80	0.00	0.00	
ENSG00000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]	protein coding	3.96	5.76	40.58	0.00	0.00	
ENSG0000013588	GPRC5A	G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836]	protein coding	3.95	3.40	15.82	0.00	0.00	
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	protein coding	3.95	6.65	75.73	0.00	0.00	
ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	protein coding	3.95	4.09	26.91	0.00	0.00	
ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]	protein coding	3.93	4.08	25.92	0.00	0.00	
ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	protein coding	3.91	4.06	24.24	0.00	0.00	
ENSG00000197746	PSAP	prosapoisin [Source:HGNC Symbol;Acc:HGNC:9498]	protein coding	3.90	7.54	68.48	0.00	0.00	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	3.90	4.49	26.36	0.00	0.00	
ENSG00000198840	MT-ND3	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3 [Source:HGNC Symbol;Acc:HGNC:7458]	protein coding	3.89	4.17	15.70	0.00	0.00	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	3.88	7.73	62.28	0.00	0.00	
ENSG00000100242	SUN2	Sad1 and UNC84 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14210]	protein coding	3.87	3.35	15.32	0.00	0.00	
ENSG00000167004	PDIA3	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	protein coding	3.85	6.34	69.74	0.00	0.00	
ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]	protein coding	3.85	8.77	49.85	0.00	0.00	
ENSG00000145246	ATP10D	ATPase phospholipid transporting 10D (putative) [Source:HGNC Symbol;Acc:HGNC:13549]	protein coding	3.85	3.34	14.79	0.00	0.00	
ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	protein coding	3.85	4.43	31.98	0.00	0.00	

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ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	3.85	6.40	64.80	0.00	0.00	
ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	protein coding	3.84	4.78	34.30	0.00	0.00	
ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	protein coding	3.84	6.87	74.52	0.00	0.00	
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	protein coding	3.84	3.33	12.41	0.00	0.01	
ENSG00000139370	SLC15A4	solute carrier family 15 member 4 [Source:HGNC Symbol;Acc:HGNC:23090]	protein coding	3.83	3.36	15.40	0.00	0.00	
ENSG00000044574	HSPA5	heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238]	protein coding	3.83	7.00	66.45	0.00	0.00	
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	3.81	6.88	63.97	0.00	0.00	
ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	protein coding	3.80	5.02	40.95	0.00	0.00	
ENSG00000153132	CLGN	calmegin [Source:HGNC Symbol;Acc:HGNC:2060]	protein coding	3.80	5.04	41.08	0.00	0.00	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	3.80	6.05	63.08	0.00	0.00	
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	protein coding	3.78	3.93	24.13	0.00	0.00	
ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	protein coding	3.78	3.29	14.36	0.00	0.00	
ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	protein coding	3.73	3.29	13.62	0.00	0.00	
ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]	protein coding	3.73	9.97	41.32	0.00	0.00	
ENSG00000142192	APP	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]	protein coding	3.72	5.20	41.84	0.00	0.00	
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	protein coding	3.70	3.23	12.26	0.00	0.01	
ENSG00000050344	NFE2L3	nuclear factor, erythroid 2 like 3 [Source:HGNC Symbol;Acc:HGNC:7783]	protein coding	3.69	3.23	13.06	0.00	0.01	
ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	protein coding	3.69	3.89	15.86	0.00	0.00	
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	protein coding	3.68	5.13	41.91	0.00	0.00	
ENSG00000252521	RNU5D-2P	RNA, U5D small nuclear 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:42534]	snRNA	3.67	3.22	12.54	0.00	0.01	
ENSG00000198886	MT-ND4	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4 [Source:HGNC Symbol;Acc:HGNC:7459]	protein coding	3.67	6.33	23.83	0.00	0.00	
ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]	protein coding	3.66	9.23	47.18	0.00	0.00	

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ENSG00000198938	MT-CO3	mitochondrially encoded cytochrome c oxidase III [Source:HGNC Symbol;Acc:HGNC:7422]	protein coding	3.65	5.21	27.14	0.00	0.00	
ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	protein coding	3.65	3.86	21.54	0.00	0.00	
ENSG00000198763	MT-ND2	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 2 [Source:HGNC Symbol;Acc:HGNC:7456]	protein coding	3.65	3.33	7.82	0.01	0.04	
ENSG00000238835	SCARNA18	small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]	snoRNA	3.65	3.86	20.65	0.00	0.00	
ENSG00000149428	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]	protein coding	3.65	6.94	69.19	0.00	0.00	
ENSG00000146674	IGFBP3	insulin like growth factor binding protein 3 [Source:HGNC Symbol;Acc:HGNC:5472]	protein coding	3.64	3.94	16.02	0.00	0.00	
ENSG00000079385	CEACAM1	carcinoembryonic antigen related cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:1814]	protein coding	3.64	3.17	9.76	0.00	0.02	
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	protein coding	3.64	6.96	68.57	0.00	0.00	
ENSG00000244331		ribosomal protein, large, P2 (RPLP2) pseudogene	processed pseudogene	-3.64	3.19	9.49	0.00	0.02	
ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	antisense	3.63	3.23	12.02	0.00	0.01	
ENSG00000132031	MATN3	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]	protein coding	3.63	3.85	18.19	0.00	0.00	
ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]	protein coding	3.62	5.77	51.88	0.00	0.00	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	3.61	6.67	67.57	0.00	0.00	
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	protein coding	3.61	6.32	64.04	0.00	0.00	
ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]	protein coding	3.60	3.82	20.56	0.00	0.00	
ENSG00000131871	SELENOS	selenoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]	protein coding	3.60	4.55	32.10	0.00	0.00	
ENSG00000179111	HES7	hes family bHLH transcription factor 7 [Source:HGNC Symbol;Acc:HGNC:15977]	protein coding	-3.59	9.75	10.67	0.00	0.01	
ENSG00000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]	protein coding	3.58	3.16	12.25	0.00	0.01	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	3.57	6.88	69.00	0.00	0.00	
ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	transcribed unprocessed pseudogene	3.57	3.15	10.79	0.00	0.01	

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ENSG00000108622	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:5345]	protein coding	3.57	3.77	19.88	0.00	0.00	
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	protein coding	3.57	3.75	15.20	0.00	0.00	
ENSG00000198786	MT-ND5	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 5 [Source:HGNC Symbol;Acc:HGNC:7461]	protein coding	3.56	6.23	39.39	0.00	0.00	
ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]	protein coding	3.55	3.18	11.71	0.00	0.01	
ENSG00000167601	AXL	AXL receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:905]	protein coding	3.54	3.17	11.22	0.00	0.01	
ENSG00000155660	PDIA4	protein disulfide isomerase family A member 4 [Source:HGNC Symbol;Acc:HGNC:30167]	protein coding	3.53	6.93	63.77	0.00	0.00	
ENSG00000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	protein coding	-3.52	3.80	17.13	0.00	0.00	
ENSG00000213757		ribosomal protein S3A (RPS3A) pseudogene	processed pseudogene	-3.52	3.11	8.93	0.00	0.03	
ENSG00000175592	FOSL1	FOS like 1, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:13718]	protein coding	3.51	3.10	9.91	0.00	0.02	
ENSG00000085563	ABCB1	ATP binding cassette subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:40]	protein coding	3.49	4.76	32.75	0.00	0.00	
ENSG00000277149	TYW1B	tRNA- γ W synthesizing protein 1 homolog B [Source:HGNC Symbol;Acc:HGNC:33908]	protein coding	3.48	3.09	10.55	0.00	0.01	
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	protein coding	3.47	6.31	59.83	0.00	0.00	
ENSG00000198804	MT-CO1	mitochondrially encoded cytochrome c oxidase I [Source:HGNC Symbol;Acc:HGNC:7419]	protein coding	3.47	5.52	34.52	0.00	0.00	
ENSG00000231925	TAPBP	TAP binding protein [Source:HGNC Symbol;Acc:HGNC:11566]	protein coding	3.46	4.91	33.51	0.00	0.00	
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	3.46	6.62	60.61	0.00	0.00	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	3.44	5.85	43.99	0.00	0.00	
ENSG00000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]	protein coding	3.44	7.10	63.64	0.00	0.00	
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	protein coding	3.43	3.67	13.23	0.00	0.00	
ENSG00000166340	TPP1	tripeptidyl peptidase 1 [Source:HGNC Symbol;Acc:HGNC:2073]	protein coding	3.42	4.12	24.53	0.00	0.00	
ENSG00000105173	CCNE1	cyclin E1 [Source:HGNC Symbol;Acc:HGNC:1589]	protein coding	-3.42	4.17	21.59	0.00	0.00	
ENSG00000186076		phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene	processed pseudogene	-3.42	3.11	10.04	0.00	0.02	

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ENSG00000030582	GRN	granulin precursor [Source:HGNC Symbol;Acc:HGNC:4601]	Sym-	protein coding	3.41	4.39	23.60	0.00	0.00		
ENSG00000151846	PABPC3	poly(A) binding protein cytoplasmic 3 [Source:HGNC Symbol;Acc:HGNC:8556]		protein coding	3.41	3.04	8.34	0.00	0.03		
ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	Sym-	protein coding	3.39	4.88	28.08	0.00	0.00		
ENSG00000010318	PHF7	PHD finger protein 7 [Source:HGNC Symbol;Acc:HGNC:18458]	Sym-	protein coding	-3.39	3.08	9.65	0.00	0.02		
ENSG00000077454	LRCH4	leucine rich repeats and calponin homology domain containing 4 [Source:HGNC Symbol;Acc:HGNC:6691]	Sym-	protein coding	3.39	3.03	9.04	0.00	0.03		
ENSG00000244038	DDOST	dolichyl-diphosphooligosaccharide–protein glycosyl-transferase non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:2728]		protein coding	3.39	5.69	47.29	0.00	0.00		
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]		protein coding	3.38	6.30	57.38	0.00	0.00		
ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]		protein coding	3.37	3.61	13.14	0.00	0.00		
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]		protein coding	3.37	4.43	26.04	0.00	0.00		
ENSG00000023892	DEF6	DEF6, guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:2760]		protein coding	-3.37	3.09	8.79	0.00	0.03		
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]		protein coding	3.36	8.86	39.99	0.00	0.00		
ENSG00000258102	MAP1LC3B2	microtubule associated protein 1 light chain 3 beta 2 [Source:HGNC Symbol;Acc:HGNC:34390]		protein coding	3.36	3.02	8.98	0.00	0.03		
ENSG00000229656	ITGB1-DT	ITGB1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:53718]		lincRNA	3.36	3.02	8.98	0.00	0.03		
ENSG00000144837	PLA1A	phospholipase A1 member A [Source:HGNC Symbol;Acc:HGNC:17661]		protein coding	3.35	4.13	12.86	0.00	0.01		
ENSG00000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]		protein coding	3.35	5.98	52.98	0.00	0.00		
ENSG00000207083	RNU6-22P	RNA, U6 small nuclear 22, pseudogene [Source:HGNC Symbol;Acc:HGNC:34266]		snRNA	3.33	3.05	8.78	0.00	0.03		
ENSG00000146090	RASGEF1C	RasGEF domain family member 1C [Source:HGNC Symbol;Acc:HGNC:27400]		protein coding	3.33	3.05	8.77	0.00	0.03		
ENSG00000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]		protein coding	3.33	3.05	8.77	0.00	0.03		
ENSG00000118257	NRP2	neuropilin 2 [Source:HGNC Symbol;Acc:HGNC:8005]		protein coding	3.32	3.59	16.09	0.00	0.00		
ENSG00000232838	PET117	PET117 homolog [Source:HGNC Symbol;Acc:HGNC:40045]		protein coding	-3.32	3.05	9.16	0.00	0.02		
ENSG00000145908	ZNF300	zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13091]		protein coding	3.32	3.59	15.52	0.00	0.00		

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ENSG00000178078	STAP2	signal transducing adaptor family member 2 [Source:HGNC Symbol;Acc:HGNC:30430]	protein coding	3.30	3.04	8.51	0.00	0.03	
ENSG00000141738	GRB7	growth factor receptor bound protein 7 [Source:HGNC Symbol;Acc:HGNC:4567]	protein coding	-3.30	3.02	8.47	0.00	0.03	
ENSG00000109736	MFSD10	major facilitator superfamily domain containing 10 [Source:HGNC Symbol;Acc:HGNC:16894]	protein coding	3.30	3.61	15.97	0.00	0.00	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	3.29	5.94	50.42	0.00	0.00	
ENSG00000135047	CTSL	cathepsin L [Source:HGNC Symbol;Acc:HGNC:2537]	protein coding	3.29	4.02	20.58	0.00	0.00	
ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]	protein coding	3.29	3.66	13.77	0.00	0.00	
ENSG00000228956	SATB1-AS1	SATB1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50687]	processed transcript	-3.29	3.63	16.04	0.00	0.00	
ENSG00000212907	MT-ND4L	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4L [Source:HGNC Symbol;Acc:HGNC:7460]	protein coding	3.29	4.03	15.55	0.00	0.00	
ENSG00000150687	PRSS23	serine protease 23 [Source:HGNC Symbol;Acc:HGNC:14370]	protein coding	3.27	5.89	47.91	0.00	0.00	
ENSG00000105289	TJP3	tight junction protein 3 [Source:HGNC Symbol;Acc:HGNC:11829]	protein coding	-3.27	3.61	14.74	0.00	0.00	
ENSG00000172216	CEBPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	3.27	6.79	57.70	0.00	0.00	
ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	protein coding	3.26	5.55	41.73	0.00	0.00	
ENSG00000202360	RN7SKP249	RNA, 7SK small nuclear pseudogene 249 [Source:HGNC Symbol;Acc:HGNC:45973]	misc RNA	3.26	2.96	8.24	0.00	0.03	
ENSG00000197818	SLC9A8	solute carrier family 9 member A8 [Source:HGNC Symbol;Acc:HGNC:20728]	protein coding	3.26	4.59	29.14	0.00	0.00	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	3.25	4.99	31.45	0.00	0.00	
ENSG00000141384	TAF4B	TATA-box binding protein associated factor 4b [Source:HGNC Symbol;Acc:HGNC:11538]	protein coding	3.25	2.96	8.41	0.00	0.03	
ENSG00000218336	TENM3	teneurin transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:29944]	protein coding	3.25	2.96	8.41	0.00	0.03	
ENSG00000103226	NOMO3	NODAL modulator 3 [Source:HGNC Symbol;Acc:HGNC:25242]	protein coding	3.25	2.96	8.41	0.00	0.03	
ENSG00000177666	PNPLA2	patatin like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30802]	protein coding	3.24	2.95	8.12	0.00	0.04	
ENSG00000184371	CSF1	colony stimulating factor 1 [Source:HGNC Symbol;Acc:HGNC:2432]	protein coding	3.23	3.94	17.89	0.00	0.00	
ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]	protein coding	3.22	3.97	18.77	0.00	0.00	
ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]	processed transcript	3.22	3.99	19.98	0.00	0.00	

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ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	3.21	6.79	60.55	0.00	0.00	
ENSG00000157181	ODR4	odr-4 GPCR localization factor homolog [Source:HGNC Symbol;Acc:HGNC:24299]	protein coding	3.21	4.96	31.87	0.00	0.00	
ENSG00000164308	ERAP2	endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]	protein coding	3.20	2.98	7.99	0.00	0.04	
ENSG00000185164	NOMO2	NODAL modulator 2 [Source:HGNC Symbol;Acc:HGNC:22652]	protein coding	3.20	2.97	8.28	0.00	0.03	
ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	protein coding	3.20	2.97	8.28	0.00	0.03	
ENSG00000204099	NEU4	neuraminidase 4 [Source:HGNC Symbol;Acc:HGNC:21328]	protein coding	-3.18	4.29	24.02	0.00	0.00	
ENSG00000168386	FILIP1L	filamin A interacting protein 1 like [Source:HGNC Symbol;Acc:HGNC:24589]	protein coding	3.18	5.59	41.79	0.00	0.00	
ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	protein coding	3.18	3.50	14.06	0.00	0.00	
ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	protein coding	3.18	4.50	25.75	0.00	0.00	
ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]	protein coding	3.18	5.69	30.33	0.00	0.00	
ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]	protein coding	3.17	3.48	11.61	0.00	0.01	
ENSG00000100600	LGMN	legumain [Source:HGNC Symbol;Acc:HGNC:9472]	protein coding	3.16	3.48	10.55	0.00	0.01	
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	protein coding	3.16	6.36	50.98	0.00	0.00	
ENSG00000072682	P4HA2	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547]	protein coding	3.16	3.51	14.09	0.00	0.00	
ENSG00000172071	EIF2AK3	eukaryotic translation initiation factor 2 alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]	protein coding	3.15	4.48	26.68	0.00	0.00	
ENSG00000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	protein coding	3.15	5.57	40.59	0.00	0.00	
ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]	protein coding	3.15	7.54	48.31	0.00	0.00	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	3.14	5.89	43.58	0.00	0.00	
ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]	protein coding	3.14	4.19	22.81	0.00	0.00	
ENSG0000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]	protein coding	3.14	4.93	26.79	0.00	0.00	
ENSG00000149131	SERPING1	serpin family G member 1 [Source:HGNC Symbol;Acc:HGNC:1228]	protein coding	3.13	3.45	11.78	0.00	0.01	
ENSG00000258645	HSPE1P2	heat shock protein family E (Hsp10) member 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:20052]	processed pseudogene	-3.13	2.94	7.49	0.01	0.05	

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ENSG00000160298	C21orf58	chromosome 21 open reading frame 58 [Source:HGNC Symbol;Acc:HGNC:1300]	protein coding	-3.13	2.94	7.49	0.01	0.05					
ENSG0000073008	PVR	poliovirus receptor [Source:HGNC Symbol;Acc:HGNC:9705]	protein coding	3.13	6.84	53.14	0.00	0.00					
ENSG00000166794	PPIB	peptidyl prolyl isomerase B [Source:HGNC Symbol;Acc:HGNC:9255]	protein coding	3.13	5.67	38.38	0.00	0.00					
ENSG00000222281	RN7SKP111	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45835]	misc RNA	3.11	4.19	19.38	0.00	0.00					
ENSG00000137880	GCHFR	GTP cyclohydrolase I feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]	protein coding	-3.11	2.92	7.52	0.01	0.05					
ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]	protein coding	3.10	3.85	17.78	0.00	0.00					
ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]	protein coding	3.10	5.93	43.90	0.00	0.00					
ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	transcribed unprocessed pseudo-gene	3.10	3.84	17.57	0.00	0.00					
ENSG0000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]	protein coding	3.09	3.47	10.71	0.00	0.01					
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	3.09	6.53	50.38	0.00	0.00					
ENSG00000107864	CPEB3	cytoplasmic polyadenylation element binding protein 3 [Source:HGNC Symbol;Acc:HGNC:21746]	protein coding	3.09	3.43	10.14	0.00	0.02					
ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	protein coding	-3.09	6.56	34.72	0.00	0.00					
ENSG00000163703	CRELD1	cysteine rich with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:14630]	protein coding	3.08	4.64	26.57	0.00	0.00					
ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]	protein coding	3.07	6.30	48.55	0.00	0.00					
ENSG00000049860	HEXB	hexosaminidase subunit beta [Source:HGNC Symbol;Acc:HGNC:4879]	protein coding	3.06	5.05	30.14	0.00	0.00					
ENSG0000068697	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]	protein coding	3.05	4.91	21.80	0.00	0.00					
ENSG0000096968	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]	protein coding	3.05	5.34	32.49	0.00	0.00					
ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]	protein coding	3.04	3.80	16.28	0.00	0.00					
ENSG00000221968	FADS3	fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:3576]	protein coding	3.04	4.98	30.51	0.00	0.00					
ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]	protein coding	3.04	3.83	15.61	0.00	0.00					
ENSG00000124243	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:HGNC:14367]	protein coding	-3.04	3.86	17.22	0.00	0.00					

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ENSG00000135404	CD63	CD63 molecule [Source:HGNC Symbol;Acc:HGNC:1692]	[Source:HGNC Symbol;Acc:HGNC:11134]	Sym-	protein coding	3.03	5.95	43.76	0.00	0.00	
ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:4525]	[Source:HGNC Symbol;Acc:HGNC:28898]	Sym-	protein coding	3.02	4.59	25.27	0.00	0.00	
ENSG0000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:128165]	[Source:HGNC Symbol;Acc:HGNC:1134]	Sym-	protein coding	3.01	3.42	10.21	0.00	0.02	
ENSG0000115307	AUP1	AUP1, lipid droplet regulating VLDL assembly factor [Source:HGNC Symbol;Acc:HGNC:891]	[Source:HGNC Symbol;Acc:HGNC:134901]	Sym-	protein coding	3.00	5.27	32.49	0.00	0.00	
ENSG0000134901	KDELC1	KDEL motif containing 1 [Source:HGNC Symbol;Acc:HGNC:19350]	[Source:HGNC Symbol;Acc:HGNC:165556]	Sym-	protein coding	3.00	3.41	11.74	0.00	0.01	
ENSG0000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	[Source:HGNC Symbol;Acc:HGNC:147852]	Sym-	protein coding	-3.00	3.43	11.44	0.00	0.01	
ENSG0000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20577]	[Source:HGNC Symbol;Acc:HGNC:23024]	Sym-	protein coding	2.99	3.76	15.64	0.00	0.00	
ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:278099]	[Source:HGNC Symbol;Acc:HGNC:130202]	Sym-	protein coding	2.98	6.09	46.76	0.00	0.00	
ENSG00000278099	NECTIN2	nectin cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:9707]	[Source:HGNC Symbol;Acc:HGNC:147852]	Sym-	snRNA	2.98	5.34	23.92	0.00	0.00	
ENSG0000130202	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]	[Source:HGNC Symbol;Acc:HGNC:164949]	Sym-	protein coding	2.97	4.54	21.67	0.00	0.00	
ENSG0000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:185880]	[Source:HGNC Symbol;Acc:HGNC:4234]	Sym-	protein coding	2.97	4.31	22.40	0.00	0.00	
ENSG0000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:100906]	[Source:HGNC Symbol;Acc:HGNC:17857]	Sym-	protein coding	2.96	5.92	43.21	0.00	0.00	
ENSG0000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:118217]	[Source:HGNC Symbol;Acc:HGNC:7797]	Sym-	protein coding	2.96	6.44	50.35	0.00	0.00	
ENSG0000118217	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:791]	[Source:HGNC Symbol;Acc:HGNC:103042]	Sym-	protein coding	2.96	5.71	33.65	0.00	0.00	
ENSG0000103042	SLC38A7	solute carrier family 38 member 7 [Source:HGNC Symbol;Acc:HGNC:25582]	[Source:HGNC Symbol;Acc:HGNC:75426]	Sym-	protein coding	2.96	4.08	19.44	0.00	0.00	
ENSG0000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:134285]	[Source:HGNC Symbol;Acc:HGNC:3798]	Sym-	protein coding	2.96	5.22	28.14	0.00	0.00	
ENSG0000134285	FKBP11	FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:189060]	[Source:HGNC Symbol;Acc:HGNC:18624]	Sym-	protein coding	2.95	5.05	29.83	0.00	0.00	
ENSG0000189060	H1F0	H1 histone family member 0 [Source:HGNC Symbol;Acc:HGNC:164266]	[Source:HGNC Symbol;Acc:HGNC:4714]	Sym-	protein coding	2.95	4.04	16.88	0.00	0.00	
ENSG0000164266	SPINK1	serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:156639]	[Source:HGNC Symbol;Acc:HGNC:11244]	Sym-	protein coding	2.95	7.48	46.97	0.00	0.00	
ENSG0000156639	ZFAND3	zinc finger AN1-type containing 3 [Source:HGNC Symbol;Acc:HGNC:18019]	[Source:HGNC Symbol;Acc:HGNC:18019]	Sym-	protein coding	2.94	5.03	29.08	0.00	0.00	

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ENSG00000206908	RNU1-136P	RNA, U1 small nuclear 136, pseudogene [Source:HGNC Symbol;Acc:HGNC:48478]	snRNA	2.93	3.33	11.18	0.00	0.01	
ENSG0000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	protein coding	2.93	3.33	10.82	0.00	0.01	
ENSG00000205155	PSENEN	presenilin enhancer, gamma-secretase subunit [Source:HGNC Symbol;Acc:HGNC:30100]	protein coding	2.93	3.72	14.85	0.00	0.00	
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	protein coding	2.93	5.62	31.24	0.00	0.00	
ENSG00000141756	FKBP10	FK506 binding protein 10 [Source:HGNC Symbol;Acc:HGNC:18169]	protein coding	2.92	4.95	26.28	0.00	0.00	
ENSG00000198841	KTI12	KTI12 chromatin associated homolog [Source:HGNC Symbol;Acc:HGNC:25160]	protein coding	2.92	3.70	9.94	0.00	0.02	
ENSG00000139641	ESYT1	extended synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:29534]	protein coding	2.92	6.01	44.55	0.00	0.00	
ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]	protein coding	2.91	7.58	43.42	0.00	0.00	
ENSG00000248049	UBA6-AS1	UBA6 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49083]	antisense	2.91	3.35	11.27	0.00	0.01	
ENSG00000175505	CLCF1	cardiotrophin like cytokine factor 1 [Source:HGNC Symbol;Acc:HGNC:17412]	protein coding	2.90	3.34	10.87	0.00	0.01	
ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]	protein coding	2.90	4.39	18.82	0.00	0.00	
ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	protein coding	2.89	5.21	27.84	0.00	0.00	
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	protein coding	2.89	5.50	29.76	0.00	0.00	
ENSG00000136986	DERL1	derlin 1 [Source:HGNC Symbol;Acc:HGNC:28454]	protein coding	2.89	4.82	25.11	0.00	0.00	
ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	protein coding	2.88	4.99	28.53	0.00	0.00	
ENSG00000120889	TNFRSF10B	TNF receptor superfamily member 10b [Source:HGNC Symbol;Acc:HGNC:11905]	protein coding	2.88	7.43	44.42	0.00	0.00	
ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]	protein coding	2.88	5.15	31.15	0.00	0.00	
ENSG00000201183	RNVU1-3	RNA, variant U1 small nuclear 3 [Source:HGNC Symbol;Acc:HGNC:48311]	snRNA	2.88	3.77	9.82	0.00	0.02	
ENSG00000092969	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]	protein coding	2.88	4.96	26.56	0.00	0.00	
ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	protein coding	2.87	6.30	46.05	0.00	0.00	
ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]	protein coding	2.87	3.28	9.30	0.00	0.02	
ENSG00000036672	USP2	ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:12618]	protein coding	2.87	3.75	13.81	0.00	0.00	
ENSG00000119125	GDA	guanine deaminase [Source:HGNC Symbol;Acc:HGNC:4212]	protein coding	-2.86	4.69	22.45	0.00	0.00	

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ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	protein coding	2.85	6.72	45.13	0.00	0.00	
ENSG00000214199	EEF1A1P12	eukaryotic translation elongation factor 1 alpha 1 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:3195]	processed pseudo-gene	-2.85	4.04	14.97	0.00	0.00	
ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]	protein coding	2.85	4.63	22.62	0.00	0.00	
ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	protein coding	-2.85	4.71	25.44	0.00	0.00	
ENSG00000169851	PCDH7	protocadherin 7 [Source:HGNC Symbol;Acc:HGNC:8659]	protein coding	2.85	4.27	20.88	0.00	0.00	
ENSG00000118523	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:2500]	protein coding	2.84	4.99	26.20	0.00	0.00	
ENSG00000121775	TMEM39B	transmembrane protein 39B [Source:HGNC Symbol;Acc:HGNC:25510]	protein coding	2.84	3.27	8.51	0.00	0.03	
ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]	protein coding	2.83	4.66	19.19	0.00	0.00	
ENSG00000135506	OS9	OS9, endoplasmic reticulum lectin [Source:HGNC Symbol;Acc:HGNC:16994]	protein coding	2.83	6.19	44.48	0.00	0.00	
ENSG00000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]	protein coding	2.83	4.87	23.90	0.00	0.00	
ENSG00000198899	MT-ATP6	mitochondrially encoded ATP synthase membrane subunit 6 [Source:HGNC Symbol;Acc:HGNC:7414]	protein coding	2.82	3.68	12.53	0.00	0.01	
ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]	protein coding	2.82	3.30	9.84	0.00	0.02	
ENSG00000168826	ZBTB49	zinc finger and BTB domain containing 49 [Source:HGNC Symbol;Acc:HGNC:19883]	protein coding	2.82	3.30	9.84	0.00	0.02	
ENSG00000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]	protein coding	2.82	3.29	10.13	0.00	0.02	
ENSG00000157429	ZNF19	zinc finger protein 19 [Source:HGNC Symbol;Acc:HGNC:12981]	protein coding	2.82	3.29	10.13	0.00	0.02	
ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]	protein coding	2.81	9.76	26.93	0.00	0.00	
ENSG00000280670	CCDC163	coiled-coil domain containing 163 [Source:HGNC Symbol;Acc:HGNC:27003]	protein coding	2.81	3.29	9.99	0.00	0.02	
ENSG00000177058	SLC38A9	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]	protein coding	2.81	3.68	11.53	0.00	0.01	
ENSG00000033100	CHPF2	chondroitin polymerizing factor 2 [Source:HGNC Symbol;Acc:HGNC:29270]	protein coding	2.79	3.63	12.72	0.00	0.01	
ENSG0000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]	protein coding	2.79	4.75	25.04	0.00	0.00	
ENSG00000134897	BIVM	basic, immunoglobulin-like variable motif containing [Source:HGNC Symbol;Acc:HGNC:16034]	protein coding	-2.79	3.31	10.04	0.00	0.02	
ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	lncRNA	-2.78	3.65	10.51	0.00	0.01	

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ENSG0000073464	CLCN4	chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc:HGNC:2022]	protein coding	2.78	5.44	27.66	0.00	0.00	
ENSG0000234797	RPS3AP6	ribosomal protein S3A pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:18630]	processed pseudo-gene	-2.78	3.29	8.13	0.00	0.04	
ENSG0000253616		novel transcript	antisense	2.77	5.18	20.57	0.00	0.00	
ENSG0000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]	protein coding	2.77	3.65	13.34	0.00	0.00	
ENSG0000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	protein coding	2.77	3.91	13.45	0.00	0.00	
ENSG0000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	lincRNA	-2.77	4.25	19.56	0.00	0.00	
ENSG0000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	protein coding	2.76	4.21	19.28	0.00	0.00	
ENSG0000148143	ZNF462	zinc finger protein 462 [Source:HGNC Symbol;Acc:HGNC:21684]	protein coding	2.76	4.15	17.31	0.00	0.00	
ENSG0000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]	processed transcript	2.76	5.52	31.88	0.00	0.00	
ENSG0000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]	protein coding	2.76	6.50	43.22	0.00	0.00	
ENSG0000207624	MIR194-1	microRNA 194-1 [Source:HGNC Symbol;Acc:HGNC:31564]	miRNA	2.75	3.67	10.78	0.00	0.01	
ENSG0000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	protein coding	2.75	8.16	35.33	0.00	0.00	
ENSG0000071537	SEL1L	SEL1L, ERAD E3 ligase adaptor subunit [Source:HGNC Symbol;Acc:HGNC:10717]	protein coding	2.75	5.61	33.35	0.00	0.00	
ENSG0000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]	protein coding	2.74	3.21	9.27	0.00	0.02	
ENSG0000131591	C1orf159	chromosome 1 open reading frame 159 [Source:HGNC Symbol;Acc:HGNC:26062]	protein coding	2.74	3.21	8.90	0.00	0.03	
ENSG0000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]	protein coding	2.74	4.55	22.50	0.00	0.00	
ENSG0000279738		novel transcript, sense overlapping to EIF3L	sense overlapping	-2.74	3.28	8.94	0.00	0.03	
ENSG0000127528	KLF2	Kruppel like factor 2 [Source:HGNC Symbol;Acc:HGNC:6347]	protein coding	2.74	3.62	9.55	0.00	0.02	
ENSG0000259020		prothymosin, alpha (PTMA) pseudogene	processed pseudo-gene	-2.74	3.28	8.93	0.00	0.03	
ENSG0000259479	SORD2P	sorbitol dehydrogenase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:49919]	transcribed unprocessed pseudo-gene	-2.74	3.28	8.93	0.00	0.03	
ENSG0000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	protein coding	2.74	6.87	40.26	0.00	0.00	

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ENSG00000265961			misc RNA	-2.74	3.27	8.89	0.00	0.03	
ENSG00000186193	SAPCD2	suppressor APC domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28055]	protein coding	-2.73	4.96	17.38	0.00	0.00	
ENSG00000263905	RN7SL555P	RNA, 7SL, cytoplasmic 555, pseudogene [Source:HGNC Symbol;Acc:HGNC:46571]	misc RNA	-2.73	3.28	8.46	0.00	0.03	
ENSG00000124067	SLC12A4	solute carrier family 12 member 4 [Source:HGNC Symbol;Acc:HGNC:10913]	protein coding	2.73	6.63	44.49	0.00	0.00	
ENSG00000238825	RNU1-13P	RNA, U1 small nuclear 13, pseudogene [Source:HGNC Symbol;Acc:HGNC:10138]	snRNA	2.73	4.63	21.36	0.00	0.00	
ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]	protein coding	2.73	5.92	35.60	0.00	0.00	
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	protein coding	2.73	5.77	35.92	0.00	0.00	
ENSG00000204070	SYS1	SYS1, golgi trafficking protein [Source:HGNC Symbol;Acc:HGNC:16162]	protein coding	2.73	5.79	35.00	0.00	0.00	
ENSG00000171298	GAA	glucosidase alpha, acid [Source:HGNC Symbol;Acc:HGNC:4065]	protein coding	2.73	3.94	15.77	0.00	0.00	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	2.73	5.77	34.83	0.00	0.00	
ENSG00000119537	KDSR	3-ketodihydrophosphingosine reductase [Source:HGNC Symbol;Acc:HGNC:4021]	protein coding	2.72	3.58	11.50	0.00	0.01	
ENSG00000076555	ACACB	acetyl-CoA carboxylase beta [Source:HGNC Symbol;Acc:HGNC:85]	protein coding	-2.72	4.21	16.72	0.00	0.00	
ENSG00000151025	GPR158	G protein-coupled receptor 158 [Source:HGNC Symbol;Acc:HGNC:23689]	protein coding	2.72	3.87	13.88	0.00	0.00	
ENSG00000207445	SNORD15B	small nucleolar RNA, C/D box 15B [Source:HGNC Symbol;Acc:HGNC:16649]	snoRNA	2.72	3.23	9.15	0.00	0.02	
ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	protein coding	2.71	3.61	11.72	0.00	0.01	
ENSG00000140497	SCAMP2	secretory carrier membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:10564]	protein coding	2.71	4.69	23.72	0.00	0.00	
ENSG00000100219	XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:HGNC:12801]	protein coding	2.71	8.68	26.48	0.00	0.00	
ENSG00000128016	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:HGNC:12862]	protein coding	2.71	5.43	19.01	0.00	0.00	
ENSG00000151176	PLBD2	phospholipase B domain containing 2 [Source:HGNC Symbol;Acc:HGNC:27283]	protein coding	2.70	3.89	15.53	0.00	0.00	
ENSG00000174165	ZDHHC24	zinc finger DHHC-type containing 24 [Source:HGNC Symbol;Acc:HGNC:27387]	protein coding	2.69	3.59	11.54	0.00	0.01	
ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	protein coding	2.69	3.51	7.56	0.01	0.04	
ENSG00000180879	SSR4	signal sequence receptor subunit 4 [Source:HGNC Symbol;Acc:HGNC:11326]	protein coding	2.69	5.74	33.23	0.00	0.00	
ENSG00000135124	P2RX4	purinergic receptor P2X 4 [Source:HGNC Symbol;Acc:HGNC:8535]	protein coding	2.68	4.63	21.20	0.00	0.00	

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ENSG00000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]	Symbol	Acc:HGNC:17169]	Sym-	protein coding	2.68	6.39	43.14	0.00	0.00	
ENSG00000138639	ARHGAP24	Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:HGNC:25361]	Symbol	Acc:HGNC:25361]	Sym-	protein coding	2.68	4.15	18.13	0.00	0.00	
ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	Symbol	Acc:HGNC:20569]	Sym-	protein coding	2.68	8.47	26.91	0.00	0.00	
ENSG00000134343	ANO3	anoctamin 3 [Source:HGNC Symbol;Acc:HGNC:14004]	Symbol	Acc:HGNC:14004]	Sym-	protein coding	2.68	3.25	8.08	0.00	0.04	
ENSG00000202395	RN7SKP1	RNA, 7SK small nuclear pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42619]	Symbol	Acc:HGNC:42619]	Sym-	misc RNA	2.67	3.25	8.17	0.00	0.04	
ENSG00000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]	Symbol	Acc:HGNC:24085]	Sym-	protein coding	2.67	6.51	41.80	0.00	0.00	
ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]	Symbol	Acc:HGNC:6150]	Sym-	protein coding	2.67	6.91	43.32	0.00	0.00	
ENSG00000177697	CD151	CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:HGNC:1630]	Symbol	Acc:HGNC:1630]	Sym-	protein coding	2.67	5.54	30.15	0.00	0.00	
ENSG00000182326	C1S	complement C1s [Source:HGNC Symbol;Acc:HGNC:1247]	Symbol	Acc:HGNC:1247]	Sym-	protein coding	2.66	4.34	16.74	0.00	0.00	
ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]	Symbol	Acc:HGNC:26429]	Sym-	protein coding	2.66	6.29	40.73	0.00	0.00	
ENSG00000157637	SLC38A10	solute carrier family 38 member 10 [Source:HGNC Symbol;Acc:HGNC:28237]	Symbol	Acc:HGNC:28237]	Sym-	protein coding	2.65	4.11	17.55	0.00	0.00	
ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]	Symbol	Acc:HGNC:28084]	Sym-	protein coding	-2.65	4.16	17.90	0.00	0.00	
ENSG00000137207	YIPF3	Yip1 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:21023]	Symbol	Acc:HGNC:21023]	Sym-	protein coding	2.65	5.08	26.56	0.00	0.00	
ENSG00000136816	TOR1B	torsin family 1 member B [Source:HGNC Symbol;Acc:HGNC:11995]	Symbol	Acc:HGNC:11995]	Sym-	protein coding	2.65	3.86	14.19	0.00	0.00	
ENSG00000159348	CYB5R1	cytochrome b5 reductase 1 [Source:HGNC Symbol;Acc:HGNC:13397]	Symbol	Acc:HGNC:13397]	Sym-	protein coding	2.65	4.99	24.85	0.00	0.00	
ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]	Symbol	Acc:HGNC:24718]	Sym-	protein coding	2.64	4.33	20.03	0.00	0.00	
ENSG00000137185	ZSCAN9	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]	Symbol	Acc:HGNC:12984]	Sym-	protein coding	2.64	3.56	11.16	0.00	0.01	
ENSG00000212443	SNORA53	small nucleolar RNA, H/ACA box 53 [Source:HGNC Symbol;Acc:HGNC:32646]	Symbol	Acc:HGNC:32646]	Sym-	snoRNA	2.64	5.05	21.56	0.00	0.00	
ENSG00000115170	ACVR1	activin A receptor type 1 [Source:HGNC Symbol;Acc:HGNC:171]	Symbol	Acc:HGNC:171]	Sym-	protein coding	2.64	5.09	20.64	0.00	0.00	
ENSG00000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]	Symbol	Acc:HGNC:14889]	Sym-	protein coding	2.63	5.20	27.47	0.00	0.00	
ENSG00000167978	SRRM2	serine/arginine repetitive matrix 2 [Source:HGNC Symbol;Acc:HGNC:16639]	Symbol	Acc:HGNC:16639]	Sym-	protein coding	2.63	6.59	38.55	0.00	0.00	
ENSG00000100532	CGRRF1	cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:HGNC:15528]	Symbol	Acc:HGNC:15528]	Sym-	protein coding	2.63	4.77	17.23	0.00	0.00	
ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]	Symbol	Acc:HGNC:23400]	Sym-	protein coding	2.63	5.57	27.52	0.00	0.00	

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ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]	protein coding	2.63	5.87	32.25	0.00	0.00	
ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	protein coding	2.63	3.55	11.45	0.00	0.01	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	2.63	6.40	40.81	0.00	0.00	
ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	snRNA	2.62	4.23	10.85	0.00	0.01	
ENSG00000152056	AP1S3	adaptor related protein complex 1 subunit sigma 3 [Source:HGNC Symbol;Acc:HGNC:18971]	protein coding	-2.62	3.20	8.22	0.00	0.03	
ENSG00000140465	CYP1A1	cytochrome P450 family 1 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2595]	protein coding	2.62	4.82	7.86	0.01	0.04	
ENSG00000106927	AMBp	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]	protein coding	2.61	7.42	37.54	0.00	0.00	
ENSG00000251136			lincRNA	2.61	4.31	18.07	0.00	0.00	
ENSG00000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	protein coding	2.61	3.57	10.96	0.00	0.01	
ENSG00000173812	EIF1	eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:HGNC:3249]	protein coding	2.61	7.08	31.66	0.00	0.00	
ENSG00000110218	PANX1	pannexin 1 [Source:HGNC Symbol;Acc:HGNC:8599]	protein coding	2.61	4.48	20.25	0.00	0.00	
ENSG00000123989	CHPF	chondroitin polymerizing factor [Source:HGNC Symbol;Acc:HGNC:24291]	protein coding	2.61	3.80	13.16	0.00	0.00	
ENSG00000214765	SEPT7P2	septin 7 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:32339]	transcribed unprocessed pseudo-gene	2.61	3.17	7.94	0.00	0.04	
ENSG00000134153	EMC7	ER membrane protein complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:24301]	protein coding	2.60	5.04	25.24	0.00	0.00	
ENSG0000023318	ERP44	endoplasmic reticulum protein 44 [Source:HGNC Symbol;Acc:HGNC:18311]	protein coding	2.60	4.78	17.24	0.00	0.00	
ENSG00000124574	ABCC10	ATP binding cassette subfamily C member 10 [Source:HGNC Symbol;Acc:HGNC:52]	protein coding	2.60	3.82	12.26	0.00	0.01	
ENSG00000171867	PRNP	prion protein [Source:HGNC Symbol;Acc:HGNC:9449]	protein coding	2.60	4.47	17.20	0.00	0.00	
ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]	protein coding	2.60	4.45	20.18	0.00	0.00	
ENSG00000282100	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene [Source:HGNC Symbol;Acc:HGNC:32538]	processed pseudo-gene	-2.60	3.91	10.50	0.00	0.01	
ENSG00000167645	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein [Source:HGNC Symbol;Acc:HGNC:30511]	protein coding	2.60	5.46	28.97	0.00	0.00	
ENSG00000145623	OSMR	oncostatin M receptor [Source:HGNC Symbol;Acc:HGNC:8507]	protein coding	2.60	4.65	21.49	0.00	0.00	

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ENSG00000149925	ALDOA	aldolase, fructose-bisphosphate A [Source:HGNC Symbol;Acc:HGNC:414]	protein coding	-2.59	3.57	10.42	0.00	0.01	
ENSG00000164002	EXO5	exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:26115]	protein coding	-2.59	3.19	8.07	0.00	0.04	
ENSG00000196628	TCF4	transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:11634]	protein coding	-2.59	4.33	19.21	0.00	0.00	
ENSG00000146828	SLC12A9	solute carrier family 12 member 9 [Source:HGNC Symbol;Acc:HGNC:17435]	protein coding	2.59	3.16	7.34	0.01	0.05	
ENSG00000104805	NUCB1	nucleobindin 1 [Source:HGNC Symbol;Acc:HGNC:8043]	protein coding	2.59	3.56	10.30	0.00	0.02	
ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]	protein coding	2.59	5.38	22.79	0.00	0.00	
ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	protein coding	2.59	6.48	40.01	0.00	0.00	
ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]	protein coding	2.59	8.17	29.93	0.00	0.00	
ENSG00000231416		ribosomal protein L34 (RPL34) pseudogene	processed pseudogene	-2.59	3.57	10.30	0.00	0.02	
ENSG00000280789	PAGR1	PAXIP1 associated glutamate rich protein 1 [Source:HGNC Symbol;Acc:HGNC:28707]	protein coding	-2.58	3.19	7.62	0.01	0.04	
ENSG00000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]	protein coding	2.58	4.61	19.73	0.00	0.00	
ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	protein coding	2.58	4.86	18.74	0.00	0.00	
ENSG00000090530	P3H2	prolyl 3-hydroxylase 2 [Source:HGNC Symbol;Acc:HGNC:19317]	protein coding	2.58	4.65	18.86	0.00	0.00	
ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	protein coding	2.57	3.77	11.71	0.00	0.01	
ENSG00000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	protein coding	2.57	7.15	37.98	0.00	0.00	
ENSG00000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	protein coding	2.57	3.56	9.56	0.00	0.02	
ENSG0000002330	BAD	BCL2 associated agonist of cell death [Source:HGNC Symbol;Acc:HGNC:936]	protein coding	-2.57	3.17	7.36	0.01	0.05	
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	protein coding	2.57	3.84	11.09	0.00	0.01	
ENSG00000132406	TMEM128	transmembrane protein 128 [Source:HGNC Symbol;Acc:HGNC:28201]	protein coding	2.57	3.51	9.42	0.00	0.02	
ENSG00000116117	PARD3B	par-3 family cell polarity regulator beta [Source:HGNC Symbol;Acc:HGNC:14446]	protein coding	2.57	4.27	17.47	0.00	0.00	
ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]	protein coding	2.57	3.83	13.04	0.00	0.01	
ENSG00000143303	RRNAD1	ribosomal RNA adenine dimethylase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:24273]	protein coding	2.57	3.80	11.37	0.00	0.01	

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ENSG00000105281	SLC1A5	solute carrier family 1 member 5 [Source:HGNC Symbol;Acc:HGNC:10943]	protein coding	2.56	6.51	39.55	0.00	0.00	
ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	protein coding	2.56	5.64	29.26	0.00	0.00	
ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily I member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	protein coding	2.56	4.30	16.62	0.00	0.00	
ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	protein coding	2.56	6.15	35.02	0.00	0.00	
ENSG00000135919	SERPINE2	serpin family E member 2 [Source:HGNC Symbol;Acc:HGNC:8951]	protein coding	2.56	3.82	13.07	0.00	0.00	
ENSG00000197081	IGF2R	insulin like growth factor 2 receptor [Source:HGNC Symbol;Acc:HGNC:5467]	protein coding	2.56	6.38	40.68	0.00	0.00	
ENSG00000213190	MLLT11	MLLT11, transcription factor 7 cofactor [Source:HGNC Symbol;Acc:HGNC:16997]	protein coding	-2.56	4.49	19.86	0.00	0.00	
ENSG00000181458	TMEM45A	transmembrane protein 45A [Source:HGNC Symbol;Acc:HGNC:25480]	protein coding	2.55	4.86	18.72	0.00	0.00	
ENSG00000201998	SNORA23	small nucleolar RNA, H/ACA box 23 [Source:HGNC Symbol;Acc:HGNC:32613]	snoRNA	2.55	3.55	8.66	0.00	0.03	
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	2.55	3.76	12.43	0.00	0.01	
ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]	protein coding	2.55	4.44	19.43	0.00	0.00	
ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	protein coding	2.55	4.19	15.21	0.00	0.00	
ENSG00000124155	PIGT	phosphatidylinositol glycan anchor biosynthesis class T [Source:HGNC Symbol;Acc:HGNC:14938]	protein coding	2.55	5.52	27.01	0.00	0.00	
ENSG00000164733	CTSB	cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]	protein coding	2.54	6.40	38.75	0.00	0.00	
ENSG00000114988	LMAN2L	lectin, mannose binding 2 like [Source:HGNC Symbol;Acc:HGNC:19263]	protein coding	2.54	4.02	13.41	0.00	0.00	
ENSG00000163032	VSNL1	visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]	protein coding	-2.53	5.81	29.46	0.00	0.00	
ENSG00000133106	EPSTI1	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]	protein coding	2.53	4.22	16.77	0.00	0.00	
ENSG00000111897	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:HGNC:13464]	protein coding	2.53	5.91	32.29	0.00	0.00	
ENSG00000174804	FZD4	frizzled class receptor 4 [Source:HGNC Symbol;Acc:HGNC:4042]	protein coding	2.53	5.65	24.50	0.00	0.00	
ENSG00000189164	ZNF527	zinc finger protein 527 [Source:HGNC Symbol;Acc:HGNC:29385]	protein coding	2.53	3.77	12.75	0.00	0.01	
ENSG00000008311	AASS	aminoacidate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]	protein coding	2.52	4.39	19.08	0.00	0.00	
ENSG00000201901	RN7SKP48	RNA, 7SK small nuclear pseudogene 48 [Source:HGNC Symbol;Acc:HGNC:45772]	misc RNA	2.52	3.59	7.75	0.01	0.04	

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ENSG00000168016	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:29011]	protein coding	2.52	4.39	18.22	0.00	0.00	
ENSG00000172059	KLF11	Kruppel like factor 11 [Source:HGNC Symbol;Acc:HGNC:11811]	protein coding	2.52	4.01	14.43	0.00	0.00	
ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	protein coding	2.52	4.57	18.59	0.00	0.00	
ENSG00000064601	CTSA	cathepsin A [Source:HGNC Symbol;Acc:HGNC:9251]	protein coding	2.52	5.07	18.86	0.00	0.00	
ENSG00000117479	SLC19A2	solute carrier family 19 member 2 [Source:HGNC Symbol;Acc:HGNC:10938]	protein coding	2.51	3.80	9.97	0.00	0.02	
ENSG00000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]	transcribed unprocessed pseudogene	2.51	4.59	20.47	0.00	0.00	
ENSG00000113504	SLC12A7	solute carrier family 12 member 7 [Source:HGNC Symbol;Acc:HGNC:10915]	protein coding	2.50	4.20	16.36	0.00	0.00	
ENSG00000125304	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11865]	protein coding	2.49	5.58	27.37	0.00	0.00	
ENSG00000085063	CD59	CD59 molecule (CD59 blood group) [Source:HGNC Symbol;Acc:HGNC:1689]	protein coding	2.49	5.24	23.43	0.00	0.00	
ENSG00000138688	KIAA1109	KIAA1109 [Source:HGNC Symbol;Acc:HGNC:26953]	protein coding	2.49	5.35	25.30	0.00	0.00	
ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]	protein coding	2.49	4.69	21.00	0.00	0.00	
ENSG00000184840	TMED9	transmembrane p24 trafficking protein 9 [Source:HGNC Symbol;Acc:HGNC:24878]	protein coding	2.49	6.04	28.34	0.00	0.00	
ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]	protein coding	-2.49	5.50	27.92	0.00	0.00	
ENSG00000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	protein coding	2.48	4.36	17.90	0.00	0.00	
ENSG00000148154	UGCG	UDP-glucose ceramide glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:12524]	protein coding	2.48	4.90	19.67	0.00	0.00	
ENSG00000168938	PPIC	peptidyl prolyl isomerase C [Source:HGNC Symbol;Acc:HGNC:9256]	protein coding	2.48	3.40	7.30	0.01	0.05	
ENSG00000162687	KCNT2	potassium sodium-activated channel subfamily T member 2 [Source:HGNC Symbol;Acc:HGNC:18866]	protein coding	2.48	4.45	16.35	0.00	0.00	
ENSG00000213866	YBX1P10	Y-box binding protein 1 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:42432]	processed pseudogene	-2.48	4.21	13.20	0.00	0.00	
ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]	protein coding	2.48	6.63	36.73	0.00	0.00	
ENSG00000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]	protein coding	2.47	8.67	26.53	0.00	0.00	
ENSG00000163482	STK36	serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC:17209]	protein coding	2.47	3.45	9.67	0.00	0.02	

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ENSG00000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]	protein coding	2.47	7.85	31.80	0.00	0.00	
ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	protein coding	2.47	6.21	27.48	0.00	0.00	
ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	protein coding	2.47	5.91	30.98	0.00	0.00	
ENSG00000032444	PNPLA6	patatin like phospholipase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:16268]	protein coding	2.46	4.79	21.42	0.00	0.00	
ENSG00000180867	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4607]	transcribed processed pseudo-gene	2.46	3.97	13.83	0.00	0.00	
ENSG00000137522	RNF121	ring finger protein 121 [Source:HGNC Symbol;Acc:HGNC:21070]	protein coding	2.46	4.35	17.31	0.00	0.00	
ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6206]	protein coding	2.46	6.52	35.76	0.00	0.00	
ENSG00000112414	ADGRG6	adhesion G protein-coupled receptor G6 [Source:HGNC Symbol;Acc:HGNC:13841]	protein coding	2.46	6.37	35.94	0.00	0.00	
ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	protein coding	2.46	7.02	38.39	0.00	0.00	
ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]	protein coding	-2.46	3.49	9.11	0.00	0.02	
ENSG00000163162	RNF149	ring finger protein 149 [Source:HGNC Symbol;Acc:HGNC:23137]	protein coding	2.45	5.28	13.97	0.00	0.00	
ENSG00000119777	TMEM214	transmembrane protein 214 [Source:HGNC Symbol;Acc:HGNC:25983]	protein coding	2.45	4.95	21.78	0.00	0.00	
ENSG00000277918			snRNA	2.45	6.44	35.65	0.00	0.00	
ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	protein coding	2.45	4.39	18.03	0.00	0.00	
ENSG00000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]	protein coding	-2.45	6.15	30.45	0.00	0.00	
ENSG00000164142	FAM160A1	family with sequence similarity 160 member A1 [Source:HGNC Symbol;Acc:HGNC:34237]	protein coding	2.45	3.54	7.33	0.01	0.05	
ENSG00000170876	TMEM43	transmembrane protein 43 [Source:HGNC Symbol;Acc:HGNC:28472]	protein coding	2.45	5.39	25.37	0.00	0.00	
ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	protein coding	2.44	4.68	20.75	0.00	0.00	
ENSG00000094975	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:HGNC:1240]	protein coding	2.44	5.84	25.94	0.00	0.00	
ENSG00000070404	FSTL3	follistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	protein coding	2.44	5.25	24.31	0.00	0.00	
ENSG00000221914	PPP2R2A	protein phosphatase 2 regulatory subunit Balpha [Source:HGNC Symbol;Acc:HGNC:9304]	protein coding	2.43	6.01	27.95	0.00	0.00	
ENSG00000130203	APOE	apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]	protein coding	2.43	6.63	33.01	0.00	0.00	

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ENSG00000167543	TP53I13	tumor protein p53 inducible protein 13 [Source:HGNC Symbol;Acc:HGNC:25102]	protein coding	2.43	3.74	11.29	0.00	0.01	
ENSG00000152291	TGOLN2	trans-golgi network protein 2 [Source:HGNC Symbol;Acc:HGNC:15450]	protein coding	2.43	5.37	22.26	0.00	0.00	
ENSG00000198832	SELENOM	selenoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]	protein coding	2.43	6.90	38.34	0.00	0.00	
ENSG00000105699	LSR	lipolysis stimulated lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:29572]	protein coding	2.43	4.85	19.26	0.00	0.00	
ENSG00000165030	NFIL3	nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:7787]	protein coding	2.42	5.22	18.86	0.00	0.00	
ENSG00000167705	RILP	Rab interacting lysosomal protein [Source:HGNC Symbol;Acc:HGNC:30266]	protein coding	-2.42	4.21	15.69	0.00	0.00	
ENSG00000100979	PLTP	phospholipid transfer protein [Source:HGNC Symbol;Acc:HGNC:9093]	protein coding	2.42	4.20	12.17	0.00	0.01	
ENSG00000147649	MTDH	metadherin [Source:HGNC Symbol;Acc:HGNC:29608]	protein coding	2.41	5.80	30.14	0.00	0.00	
ENSG00000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]	protein coding	2.41	3.38	8.86	0.00	0.03	
ENSG00000250182	EEF1A1P13	eukaryotic translation elongation factor 1 alpha 1 pseudogene 13 [Source:HGNC Symbol;Acc:HGNC:3196]	processed pseudogene	-2.41	4.55	15.57	0.00	0.00	
ENSG00000120519	SLC10A7	solute carrier family 10 member 7 [Source:HGNC Symbol;Acc:HGNC:23088]	protein coding	2.41	4.33	14.22	0.00	0.00	
ENSG00000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]	protein coding	2.41	4.30	16.41	0.00	0.00	
ENSG00000167114	SLC27A4	solute carrier family 27 member 4 [Source:HGNC Symbol;Acc:HGNC:10998]	protein coding	2.40	3.41	7.76	0.01	0.04	
ENSG00000120451	SNX19	sorting nexin 19 [Source:HGNC Symbol;Acc:HGNC:21532]	protein coding	2.40	4.46	12.24	0.00	0.01	
ENSG00000132879	FBXO44	F-box protein 44 [Source:HGNC Symbol;Acc:HGNC:24847]	protein coding	-2.40	3.74	10.73	0.00	0.01	
ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	protein coding	2.40	5.41	25.65	0.00	0.00	
ENSG00000196642	RABL6	RAB, member RAS oncogene family like 6 [Source:HGNC Symbol;Acc:HGNC:24703]	protein coding	-2.40	6.42	23.80	0.00	0.00	
ENSG00000144354	CDCA7	cell division cycle associated 7 [Source:HGNC Symbol;Acc:HGNC:14628]	protein coding	-2.40	4.54	17.49	0.00	0.00	
ENSG00000182378	PLCXD1	phosphatidylinositol specific phospholipase C X domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23148]	protein coding	-2.40	7.62	21.19	0.00	0.00	
ENSG00000251022	THAP9-AS1	THAP9 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44172]	antisense	2.39	3.75	10.22	0.00	0.02	
ENSG00000090581	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:HGNC Symbol;Acc:HGNC:23026]	protein coding	2.39	3.40	8.78	0.00	0.03	
ENSG00000154265	ABCA5	ATP binding cassette subfamily A member 5 [Source:HGNC Symbol;Acc:HGNC:35]	protein coding	2.39	4.53	17.54	0.00	0.00	

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ENSG00000141424	SLC39A6	solute carrier family 39 member 6 [Source:HGNC Symbol;Acc:HGNC:18607]	protein coding	2.39	4.01	9.91	0.00	0.02	
ENSG00000267519		novel transcript	antisense	2.39	3.68	10.71	0.00	0.01	
ENSG00000158470	B4GALT5	beta-1,4-galactosyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:928]	protein coding	2.39	5.51	23.95	0.00	0.00	
ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	protein coding	2.39	3.40	8.89	0.00	0.03	
ENSG00000117500	TMED5	transmembrane p24 trafficking protein 5 [Source:HGNC Symbol;Acc:HGNC:24251]	protein coding	2.39	7.32	30.13	0.00	0.00	
ENSG00000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]	protein coding	2.38	5.27	21.84	0.00	0.00	
ENSG00000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]	protein coding	2.38	3.98	11.49	0.00	0.01	
ENSG00000142065	ZFP14	ZFP14 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:29312]	protein coding	-2.38	3.72	9.65	0.00	0.02	
ENSG00000163898	LIPH	lipase H [Source:HGNC Symbol;Acc:HGNC:18483]	protein coding	2.38	3.70	10.36	0.00	0.02	
ENSG00000072364	AFF4	AF4/FMR2 family member 4 [Source:HGNC Symbol;Acc:HGNC:17869]	protein coding	2.37	6.71	36.01	0.00	0.00	
ENSG00000126561	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:HGNC:11366]	protein coding	2.37	3.93	12.76	0.00	0.01	
ENSG00000070759	TESK2	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]	protein coding	2.37	3.39	7.98	0.00	0.04	
ENSG00000179604	CDC42EP4	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]	protein coding	-2.37	4.17	15.42	0.00	0.00	
ENSG00000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]	snRNA	2.37	4.13	10.85	0.00	0.01	
ENSG00000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]	protein coding	2.37	7.60	32.34	0.00	0.00	
ENSG00000025796	SEC63	SEC63 homolog, protein translocation regulator [Source:HGNC Symbol;Acc:HGNC:21082]	protein coding	2.37	5.17	21.47	0.00	0.00	
ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	protein coding	2.37	4.28	16.14	0.00	0.00	
ENSG00000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]	protein coding	2.37	4.69	16.41	0.00	0.00	
ENSG00000101294	HM13	histocompatibility minor 13 [Source:HGNC Symbol;Acc:HGNC:16435]	protein coding	2.37	5.94	29.70	0.00	0.00	
ENSG00000137825	ITPKA	inositol-trisphosphate 3-kinase A [Source:HGNC Symbol;Acc:HGNC:6178]	protein coding	-2.37	5.77	23.02	0.00	0.00	
ENSG00000187288	CIDEc	cell death inducing DFFA like effector c [Source:HGNC Symbol;Acc:HGNC:24229]	protein coding	-2.37	3.96	12.45	0.00	0.01	
ENSG00000254166	CASC19	cancer susceptibility 19 [Source:HGNC Symbol;Acc:HGNC:49476]	processed transcript	2.36	3.41	8.23	0.00	0.03	
ENSG00000106105	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:4162]	protein coding	2.36	8.26	26.58	0.00	0.00	

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ENSG00000122435	TRMT13	tRNA methyltransferase 13 homolog [Source:HGNC Symbol;Acc:HGNC:25502]	protein coding	2.36	4.51	16.71	0.00	0.00	
ENSG00000131153	GINS2	GINS complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:24575]	protein coding	-2.36	5.61	24.71	0.00	0.00	
ENSG00000202144			misc RNA	-2.36	3.91	7.82	0.01	0.04	
ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	protein coding	2.36	4.30	16.22	0.00	0.00	
ENSG00000006210	CX3CL1	C-X3-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:10647]	protein coding	2.36	4.10	14.76	0.00	0.00	
ENSG00000168488	ATXN2L	ataxin 2 like [Source:HGNC Symbol;Acc:HGNC:31326]	protein coding	2.36	6.29	31.90	0.00	0.00	
ENSG00000164190	NIPBL	NIPBL, cohesin loading factor [Source:HGNC Symbol;Acc:HGNC:28862]	protein coding	2.35	6.11	31.44	0.00	0.00	
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	protein coding	2.35	5.68	27.44	0.00	0.00	
ENSG00000040531	CTNS	cystinosin, lysosomal cystine transporter [Source:HGNC Symbol;Acc:HGNC:2518]	protein coding	2.35	4.58	17.55	0.00	0.00	
ENSG00000271303	SRXN1	sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]	protein coding	-2.35	4.35	12.88	0.00	0.01	
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	protein coding	-2.35	4.72	12.24	0.00	0.01	
ENSG00000199469	RNU1-62P	RNA, U1 small nuclear 62, pseudogene [Source:HGNC Symbol;Acc:HGNC:48404]	snRNA	2.35	4.08	11.57	0.00	0.01	
ENSG00000251258	RFPL4B	ret finger protein like 4B [Source:HGNC Symbol;Acc:HGNC:33264]	protein coding	2.35	4.12	13.90	0.00	0.00	
ENSG00000242615		ribosomal protein L17 (RPL17) pseudogene	transcribed processed pseudo-gene	2.35	3.41	7.97	0.00	0.04	
ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	protein coding	2.35	4.08	12.11	0.00	0.01	
ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.34	6.67	36.01	0.00	0.00	
ENSG00000242071	RPL7AP6	ribosomal protein L7a pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:19785]	processed pseudo-gene	-2.34	3.95	12.20	0.00	0.01	
ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]	lincRNA	2.34	4.00	10.57	0.00	0.01	
ENSG00000178607	ERN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:HGNC:3449]	protein coding	2.34	5.00	19.33	0.00	0.00	
ENSG00000135744	AGT	angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]	protein coding	2.34	5.03	17.21	0.00	0.00	
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	protein coding	2.34	6.39	28.17	0.00	0.00	

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ENSG00000256937	KRT17P8	keratin 17 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:50726]	processed pseudo-gene	-2.34	3.41	8.44	0.00	0.03	
ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	protein coding	2.34	5.14	19.35	0.00	0.00	
ENSG00000136048	DRAM1	DNA damage regulated autophagy modulator 1 [Source:HGNC Symbol;Acc:HGNC:25645]	protein coding	2.34	4.43	16.47	0.00	0.00	
ENSG00000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]	protein coding	2.33	4.78	18.54	0.00	0.00	
ENSG00000186866	POFUT2	protein O-fucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:14683]	protein coding	2.33	4.54	17.53	0.00	0.00	
ENSG00000136997	MYC	MYC proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7553]	protein coding	2.33	6.91	32.39	0.00	0.00	
ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	protein coding	2.33	3.59	8.14	0.00	0.04	
ENSG00000166436	TRIM66	tripartite motif containing 66 [Source:HGNC Symbol;Acc:HGNC:29005]	protein coding	2.33	3.90	12.39	0.00	0.01	
ENSG00000237187	NR2F1-AS1	NR2F1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48622]	antisense	2.32	3.64	10.38	0.00	0.02	
ENSG00000110048	OSBP	oxysterol binding protein [Source:HGNC Symbol;Acc:HGNC:8503]	protein coding	2.32	6.30	33.71	0.00	0.00	
ENSG00000137364	TPMT	thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:HGNC:12014]	protein coding	-2.32	4.09	10.30	0.00	0.02	
ENSG00000135052	GOLM1	golgi membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:15451]	protein coding	2.32	3.82	8.00	0.00	0.04	
ENSG00000214485	RPL7P1	ribosomal protein L7 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10367]	processed pseudo-gene	-2.32	3.40	7.36	0.01	0.05	
ENSG00000110344	UBE4A	ubiquitination factor E4A [Source:HGNC Symbol;Acc:HGNC:12499]	protein coding	2.32	5.79	27.90	0.00	0.00	
ENSG00000161091	MFSD12	major facilitator superfamily domain containing 12 [Source:HGNC Symbol;Acc:HGNC:28299]	protein coding	2.32	5.02	16.12	0.00	0.00	
ENSG00000120693	SMAD9	SMAD family member 9 [Source:HGNC Symbol;Acc:HGNC:6774]	protein coding	-2.32	3.40	8.09	0.00	0.04	
ENSG00000197808	ZNF461	zinc finger protein 461 [Source:HGNC Symbol;Acc:HGNC:21629]	protein coding	2.32	3.63	9.57	0.00	0.02	
ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]	protein coding	2.32	4.10	11.95	0.00	0.01	
ENSG0000040487	PQLC2	PQ loop repeat containing 2 [Source:HGNC Symbol;Acc:HGNC:26001]	protein coding	2.31	3.84	11.29	0.00	0.01	
ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]	protein coding	2.31	4.76	18.23	0.00	0.00	
ENSG00000162407	PLPP3	phospholipid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:9229]	protein coding	2.31	4.26	15.55	0.00	0.00	
ENSG00000114019	AMOTL2	angiotonin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	protein coding	2.31	7.48	27.11	0.00	0.00	

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ENSG00000171988	JMJD1C	jumonji domain containing 1C [Source:HGNC Symbol;Acc:HGNC:12313]	protein coding	2.31	6.57	35.42	0.00	0.00	
ENSG00000173276	ZBTB21	zinc finger and BTB domain containing 21 [Source:HGNC Symbol;Acc:HGNC:13083]	protein coding	2.31	5.07	13.71	0.00	0.00	
ENSG00000065526	SPEN	spen family transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:17575]	protein coding	2.30	5.01	20.33	0.00	0.00	
ENSG00000196576	PLXNB2	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]	protein coding	2.30	5.23	22.72	0.00	0.00	
ENSG00000134294	SLC38A2	solute carrier family 38 member 2 [Source:HGNC Symbol;Acc:HGNC:13448]	protein coding	2.30	7.23	33.30	0.00	0.00	
ENSG0000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]	protein coding	-2.30	3.70	8.92	0.00	0.03	
ENSG00000117385	P3H1	prolyl 3-hydroxylase 1 [Source:HGNC Symbol;Acc:HGNC:19316]	protein coding	2.30	3.92	11.19	0.00	0.01	
ENSG00000200795	RNU4-1	RNA, U4 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10192]	snRNA	2.30	10.65	11.38	0.00	0.01	
ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	protein coding	2.30	8.34	25.08	0.00	0.00	
ENSG00000162650	ATXN7L2	ataxin 7 like 2 [Source:HGNC Symbol;Acc:HGNC:28713]	protein coding	2.30	3.35	7.84	0.01	0.04	
ENSG00000118596	SLC16A7	solute carrier family 16 member 7 [Source:HGNC Symbol;Acc:HGNC:10928]	protein coding	2.30	5.49	20.25	0.00	0.00	
ENSG00000103257	SLC7A5	solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063]	protein coding	2.30	6.91	32.56	0.00	0.00	
ENSG00000108588	CCDC47	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]	protein coding	2.30	4.75	16.77	0.00	0.00	
ENSG00000152439	ZNF773	zinc finger protein 773 [Source:HGNC Symbol;Acc:HGNC:30487]	protein coding	2.30	3.34	8.02	0.00	0.04	
ENSG00000157837	SPPL3	signal peptide peptidase like 3 [Source:HGNC Symbol;Acc:HGNC:30424]	protein coding	2.30	3.34	8.02	0.00	0.04	
ENSG00000180921	FAM83H	family with sequence similarity 83 member H [Source:HGNC Symbol;Acc:HGNC:24797]	protein coding	-2.30	3.91	10.94	0.00	0.01	
ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	protein coding	2.29	8.15	20.59	0.00	0.00	
ENSG00000140471	LINS1	lins homolog 1 [Source:HGNC Symbol;Acc:HGNC:30922]	protein coding	2.29	4.27	14.85	0.00	0.00	
ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]	protein coding	2.28	5.84	26.60	0.00	0.00	
ENSG00000074695	LMAN1	lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:6631]	protein coding	2.28	6.19	30.74	0.00	0.00	
ENSG00000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]	protein coding	2.28	6.23	30.22	0.00	0.00	
ENSG00000170537	TMC7	transmembrane channel like 7 [Source:HGNC Symbol;Acc:HGNC:23000]	protein coding	2.28	4.07	12.51	0.00	0.01	
ENSG00000137497	NUMA1	nuclear mitotic apparatus protein 1 [Source:HGNC Symbol;Acc:HGNC:8059]	protein coding	-2.27	5.70	19.32	0.00	0.00	

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ENSG00000136026	CKAP4	cytoskeleton associated protein 4 [Source:HGNC Symbol;Acc:HGNC:16991]	protein coding	2.27	4.95	16.05	0.00	0.00	
ENSG00000214121	PRDX1P1	peroxiredoxin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:11711]	processed pseudo-gene	-2.27	4.85	15.03	0.00	0.00	
ENSG0000065060	UHFR1BP1	UHFR1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21216]	protein coding	2.27	5.67	25.11	0.00	0.00	
ENSG00000154305	MIA3	MIA SH3 domain ER export factor 3 [Source:HGNC Symbol;Acc:HGNC:24008]	protein coding	2.27	5.45	23.49	0.00	0.00	
ENSG00000162736	NCSTN	nicastrin [Source:HGNC Symbol;Acc:HGNC:17091]	protein coding	2.27	4.82	16.48	0.00	0.00	
ENSG00000120697	ALG5	ALG5, dolichyl-phosphate beta-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20266]	protein coding	2.27	4.46	12.67	0.00	0.01	
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	protein coding	2.27	3.36	7.59	0.01	0.04	
ENSG00000223668	EEF1A1P24	eukaryotic translation elongation factor 1 alpha 1 pseudogene 24 [Source:HGNC Symbol;Acc:HGNC:37897]	processed pseudo-gene	-2.27	3.65	8.46	0.00	0.03	
ENSG00000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	transcribed unprocessed pseudo-gene	2.27	3.83	8.93	0.00	0.03	
ENSG00000163251	FZD5	frizzled class receptor 5 [Source:HGNC Symbol;Acc:HGNC:4043]	protein coding	2.27	6.78	31.45	0.00	0.00	
ENSG00000182934	SRPRA	SRP receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:11307]	protein coding	2.26	6.36	31.33	0.00	0.00	
ENSG00000214063	TSPAN4	tetraspanin 4 [Source:HGNC Symbol;Acc:HGNC:11859]	protein coding	2.26	4.61	10.18	0.00	0.02	
ENSG00000183255	PTTG1IP	PTTG1 interacting protein [Source:HGNC Symbol;Acc:HGNC:13524]	protein coding	2.26	6.95	31.17	0.00	0.00	
ENSG00000173230	GOLGB1	golgin B1 [Source:HGNC Symbol;Acc:HGNC:4429]	protein coding	2.26	6.35	30.00	0.00	0.00	
ENSG00000169359	SLC33A1	solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95]	protein coding	2.26	5.13	16.74	0.00	0.00	
ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	protein coding	2.26	4.49	16.21	0.00	0.00	
ENSG00000180035	ZNF48	zinc finger protein 48 [Source:HGNC Symbol;Acc:HGNC:13114]	protein coding	2.26	3.80	10.44	0.00	0.01	
ENSG00000154822	PLCL2	phospholipase C like 2 [Source:HGNC Symbol;Acc:HGNC:9064]	protein coding	-2.25	4.08	11.06	0.00	0.01	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	2.25	4.74	16.32	0.00	0.00	
ENSG00000203812	HIST2H2AA3	histone cluster 2 H2A family member a3 [Source:HGNC Symbol;Acc:HGNC:4736]	protein coding	2.25	6.16	29.92	0.00	0.00	

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ENSG00000175556	LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:HGNC:21152]	protein coding	2.25	4.05	12.85	0.00	0.01	
ENSG00000222465	RNU2-5P	RNA, U2 small nuclear 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10155]	snRNA	2.24	5.42	19.41	0.00	0.00	
ENSG00000146648	EGFR	epidermal growth factor receptor [Source:HGNC Symbol;Acc:HGNC:3236]	protein coding	2.24	6.64	31.75	0.00	0.00	
ENSG00000088038	CNOT3	CCR4-NOT transcription complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:7879]	protein coding	2.24	4.50	16.64	0.00	0.00	
ENSG00000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like [Source:HGNC Symbol;Acc:HGNC:15797]	protein coding	2.24	4.39	15.14	0.00	0.00	
ENSG00000125734	GPR108	G protein-coupled receptor 108 [Source:HGNC Symbol;Acc:HGNC:17829]	protein coding	2.24	4.83	15.70	0.00	0.00	
ENSG00000164535	DAGLB	diacylglycerol lipase beta [Source:HGNC Symbol;Acc:HGNC:28923]	protein coding	2.24	4.58	15.38	0.00	0.00	
ENSG00000116731	PRDM2	PR/SET domain 2 [Source:HGNC Symbol;Acc:HGNC:9347]	protein coding	2.24	3.87	10.63	0.00	0.01	
ENSG00000112473	SLC39A7	solute carrier family 39 member 7 [Source:HGNC Symbol;Acc:HGNC:4927]	protein coding	2.24	5.97	28.94	0.00	0.00	
ENSG0000005486	RHBDD2	rhomboid domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23082]	protein coding	2.23	4.17	11.09	0.00	0.01	
ENSG00000252577	SCARNA20	small Cajal body-specific RNA 20 [Source:HGNC Symbol;Acc:HGNC:32578]	scaRNA	2.23	3.61	9.10	0.00	0.02	
ENSG00000103335	PIEZO1	piezo type mechanosensitive ion channel component 1 [Source:HGNC Symbol;Acc:HGNC:28993]	protein coding	2.23	6.14	24.50	0.00	0.00	
ENSG00000174365	SNHG11	small nucleolar RNA host gene 11 [Source:HGNC Symbol;Acc:HGNC:25046]	processed transcript	2.23	3.79	7.39	0.01	0.05	
ENSG00000136868	SLC31A1	solute carrier family 31 member 1 [Source:HGNC Symbol;Acc:HGNC:11016]	protein coding	2.22	5.20	19.72	0.00	0.00	
ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	misc RNA	2.22	3.85	8.62	0.00	0.03	
ENSG00000165782	PIP4P1	phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:19299]	protein coding	2.22	4.45	13.66	0.00	0.00	
ENSG00000143870	PDIA6	protein disulfide isomerase family A member 6 [Source:HGNC Symbol;Acc:HGNC:30168]	protein coding	2.22	6.80	32.80	0.00	0.00	
ENSG00000150782	IL18	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	protein coding	2.21	6.06	28.85	0.00	0.00	
ENSG00000119048	UBE2B	ubiquitin conjugating enzyme E2 B [Source:HGNC Symbol;Acc:HGNC:12473]	protein coding	2.21	4.19	10.55	0.00	0.01	
ENSG00000167291	TBC1D16	TBC1 domain family member 16 [Source:HGNC Symbol;Acc:HGNC:28356]	protein coding	-2.21	5.44	17.76	0.00	0.00	
ENSG00000073905	VDAC1P1	voltage dependent anion channel 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:12671]	processed pseudogene	-2.21	3.61	8.37	0.00	0.03	
ENSG00000158411	MITD1	microtubule interacting and trafficking domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25207]	protein coding	2.21	5.92	20.64	0.00	0.00	

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ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]	protein coding	2.21	9.09	20.22	0.00	0.00	
ENSG00000185896	LAMP1	lysosomal associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:6499]	protein coding	2.21	6.41	26.57	0.00	0.00	
ENSG00000164307	ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]	protein coding	2.20	4.76	17.31	0.00	0.00	
ENSG00000153885	KCTD15	potassium channel tetramerization domain containing 15 [Source:HGNC Symbol;Acc:HGNC:23297]	protein coding	-2.20	4.66	15.72	0.00	0.00	
ENSG00000112977	DAP	death associated protein [Source:HGNC Symbol;Acc:HGNC:2672]	protein coding	2.20	4.62	14.09	0.00	0.00	
ENSG00000117410	ATP6V0B	ATPase H+ transporting V0 subunit b [Source:HGNC Symbol;Acc:HGNC:861]	protein coding	2.20	6.34	30.27	0.00	0.00	
ENSG00000078804	TP53INP2	tumor protein p53 inducible nuclear protein 2 [Source:HGNC Symbol;Acc:HGNC:16104]	protein coding	2.20	4.52	15.70	0.00	0.00	
ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]	protein coding	-2.19	4.66	17.01	0.00	0.00	
ENSG00000121073	SLC35B1	solute carrier family 35 member B1 [Source:HGNC Symbol;Acc:HGNC:20798]	protein coding	2.19	6.37	29.40	0.00	0.00	
ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	protein coding	2.19	6.73	32.49	0.00	0.00	
ENSG00000120725	SIL1	SIL1 nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:24624]	protein coding	2.19	4.00	12.19	0.00	0.01	
ENSG00000168078	PBK	PDZ binding kinase [Source:HGNC Symbol;Acc:HGNC:18282]	protein coding	-2.19	5.80	24.74	0.00	0.00	
ENSG00000184270	HIST2H2AB	histone cluster 2 H2A family member b [Source:HGNC Symbol;Acc:HGNC:20508]	protein coding	2.18	5.43	21.18	0.00	0.00	
ENSG00000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	protein coding	2.18	5.10	17.00	0.00	0.00	
ENSG00000171603	CLSTN1	calsyntenin 1 [Source:HGNC Symbol;Acc:HGNC:17447]	protein coding	2.18	4.26	13.00	0.00	0.01	
ENSG00000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]	protein coding	2.18	6.79	30.61	0.00	0.00	
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	protein coding	-2.18	5.07	13.02	0.00	0.01	
ENSG00000180581	SRP9P1	signal recognition particle 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23402]	processed pseudogene	-2.18	4.23	7.44	0.01	0.05	
ENSG00000200379	RN7SKP45	RNA, 7SK small nuclear pseudogene 45 [Source:HGNC Symbol;Acc:HGNC:45769]	misc RNA	2.18	4.82	10.13	0.00	0.02	
ENSG00000227500	SCAMP4	secretory carrier membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:30385]	protein coding	2.17	4.04	9.70	0.00	0.02	
ENSG00000207349	RNVU1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]	snRNA	2.17	5.20	11.48	0.00	0.01	
ENSG00000213614	HEXA	hexosaminidase subunit alpha [Source:HGNC Symbol;Acc:HGNC:4878]	protein coding	2.17	4.24	9.94	0.00	0.02	

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ENSG00000164930	FZD6	frizzled class receptor 6 [Source:HGNC Symbol;Acc:HGNC:4044]	protein coding	2.17	4.03	10.74	0.00	0.01	
ENSG00000148719	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12 [Source:HGNC Symbol;Acc:HGNC:14891]	protein coding	2.17	4.57	16.06	0.00	0.00	
ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]	protein coding	-2.17	5.29	14.43	0.00	0.00	
ENSG00000201271	RNU1-112P	RNA, U1 small nuclear 112, pseudogene [Source:HGNC Symbol;Acc:HGNC:48454]	snRNA	2.17	3.54	8.46	0.00	0.03	
ENSG00000115306	SPTBN1	spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:11275]	protein coding	2.17	8.05	24.88	0.00	0.00	
ENSG00000081087	OSTM1	osteoclastogenesis associated transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:21652]	protein coding	2.17	4.67	11.48	0.00	0.01	
ENSG00000130733	YIPF2	Yip1 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:28476]	protein coding	2.17	5.18	20.05	0.00	0.00	
ENSG00000105726	ATP13A1	ATPase 13A1 [Source:HGNC Symbol;Acc:HGNC:24215]	protein coding	2.17	5.53	19.67	0.00	0.00	
ENSG00000131507	NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:17592]	protein coding	2.17	5.08	15.98	0.00	0.00	
ENSG00000142686	C1orf216	chromosome 1 open reading frame 216 [Source:HGNC Symbol;Acc:HGNC:26800]	protein coding	-2.17	3.60	7.53	0.01	0.05	
ENSG00000207870	MIR221	microRNA 221 [Source:HGNC Symbol;Acc:HGNC:31601]	miRNA	2.16	6.55	23.17	0.00	0.00	
ENSG00000066322	ELOVL1	ELOVL fatty acid elongase 1 [Source:HGNC Symbol;Acc:HGNC:14418]	protein coding	2.16	4.50	15.06	0.00	0.00	
ENSG00000095209	TMEM38B	transmembrane protein 38B [Source:HGNC Symbol;Acc:HGNC:25535]	protein coding	2.16	4.99	15.93	0.00	0.00	
ENSG00000103707	MTFMT	mitochondrial methionyl-tRNA formyltransferase [Source:HGNC Symbol;Acc:HGNC:29666]	protein coding	-2.16	4.22	12.24	0.00	0.01	
ENSG00000109572	CLCN3	chloride voltage-gated channel 3 [Source:HGNC Symbol;Acc:HGNC:2021]	protein coding	2.16	6.41	28.49	0.00	0.00	
ENSG00000268222	EEF1A1P7	eukaryotic translation elongation factor 1 alpha 1 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:3202]	processed pseudogene	-2.16	4.02	11.04	0.00	0.01	
ENSG00000161638	ITGA5	integrin subunit alpha 5 [Source:HGNC Symbol;Acc:HGNC:6141]	protein coding	2.16	6.13	28.46	0.00	0.00	
ENSG00000169432	SCN9A	sodium voltage-gated channel alpha subunit 9 [Source:HGNC Symbol;Acc:HGNC:10597]	protein coding	2.16	6.58	30.76	0.00	0.00	
ENSG00000107957	SH3PXD2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:HGNC:23664]	protein coding	-2.16	3.59	8.26	0.00	0.03	
ENSG00000058262	SEC61A1	Sec61 translocon alpha 1 subunit [Source:HGNC Symbol;Acc:HGNC:18276]	protein coding	2.16	7.40	27.42	0.00	0.00	
ENSG00000136770	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1 [Source:HGNC Symbol;Acc:HGNC:20090]	protein coding	2.15	6.10	13.88	0.00	0.00	
ENSG00000051523	CYBA	cytochrome b-245 alpha chain [Source:HGNC Symbol;Acc:HGNC:2577]	protein coding	2.15	5.03	18.70	0.00	0.00	

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ENSG00000229644	NAMPTP1	nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633]	processed pseudo-gene	2.15	3.56	8.35	0.00	0.03	
ENSG00000117450	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:9352]	protein coding	-2.15	9.18	19.40	0.00	0.00	
ENSG00000111275	ALDH2	aldehyde dehydrogenase 2 family member [Source:HGNC Symbol;Acc:HGNC:404]	protein coding	-2.15	5.47	15.41	0.00	0.00	
ENSG00000077713	SLC25A43	solute carrier family 25 member 43 [Source:HGNC Symbol;Acc:HGNC:30557]	protein coding	-2.15	4.35	14.79	0.00	0.00	
ENSG00000178229	ZNF543	zinc finger protein 543 [Source:HGNC Symbol;Acc:HGNC:25281]	protein coding	2.14	3.95	9.86	0.00	0.02	
ENSG00000234678	ELF3-AS1	ELF3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40211]	antisense	2.14	3.95	9.87	0.00	0.02	
ENSG0000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	protein coding	2.14	6.57	30.52	0.00	0.00	
ENSG00000164548	TRA2A	transformer 2 alpha homolog [Source:HGNC Symbol;Acc:HGNC:16645]	protein coding	2.14	6.56	31.30	0.00	0.00	
ENSG00000092853	CLSPN	claspin [Source:HGNC Symbol;Acc:HGNC:19715]	protein coding	-2.14	4.63	11.42	0.00	0.01	
ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]	protein coding	2.14	6.78	30.73	0.00	0.00	
ENSG00000090020	SLC9A1	solute carrier family 9 member A1 [Source:HGNC Symbol;Acc:HGNC:11071]	protein coding	2.14	3.78	9.74	0.00	0.02	
ENSG00000106785	TRIM14	tripartite motif containing 14 [Source:HGNC Symbol;Acc:HGNC:16283]	protein coding	-2.14	4.33	13.94	0.00	0.00	
ENSG00000238554	RNU1-88P	RNA, U1 small nuclear 88, pseudogene [Source:HGNC Symbol;Acc:HGNC:48430]	snRNA	2.13	4.35	11.99	0.00	0.01	
ENSG00000121068	TBX2	T-box 2 [Source:HGNC Symbol;Acc:HGNC:11597]	protein coding	-2.13	4.20	10.22	0.00	0.02	
ENSG00000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]	protein coding	2.13	8.44	22.33	0.00	0.00	
ENSG00000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]	protein coding	2.13	4.71	16.32	0.00	0.00	
ENSG00000196547	MAN2A2	mannosidase alpha class 2A member 2 [Source:HGNC Symbol;Acc:HGNC:6825]	protein coding	2.13	3.71	8.95	0.00	0.03	
ENSG00000102158	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:HGNC:28880]	protein coding	2.13	5.02	17.43	0.00	0.00	
ENSG00000166145	SPINT1	serine peptidase inhibitor, Kunitz type 1 [Source:HGNC Symbol;Acc:HGNC:11246]	protein coding	2.13	3.85	8.42	0.00	0.03	
ENSG00000083123	BCKDHB	branched chain keto acid dehydrogenase E1 subunit beta [Source:HGNC Symbol;Acc:HGNC:987]	protein coding	-2.13	4.49	13.32	0.00	0.00	
ENSG00000258890	CEP95	centrosomal protein 95 [Source:HGNC Symbol;Acc:HGNC:25141]	protein coding	2.13	5.40	21.32	0.00	0.00	
ENSG00000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]	protein coding	2.13	4.39	13.69	0.00	0.00	

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ENSG00000144566	RAB5A	RAB5A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9783]	protein coding	2.13	6.40	26.54	0.00	0.00	
ENSG00000116857	TMEM9	transmembrane protein 9 [Source:HGNC Symbol;Acc:HGNC:18823]	protein coding	2.13	5.34	20.48	0.00	0.00	
ENSG00000241015	TPM3P9	tropomyosin 3 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:44142]	transcribed processed pseudo-gene	-2.12	3.56	8.15	0.00	0.04	
ENSG00000008323	PLEKHG6	pleckstrin homology and RhoGEF domain containing G6 [Source:HGNC Symbol;Acc:HGNC:25562]	protein coding	-2.12	4.61	16.16	0.00	0.00	
ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]	protein coding	-2.12	5.49	21.07	0.00	0.00	
ENSG00000101337	TM9SF4	transmembrane 9 superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:30797]	protein coding	2.12	5.56	19.03	0.00	0.00	
ENSG00000134480	CCNH	cyclin H [Source:HGNC Symbol;Acc:HGNC:1594]	protein coding	2.12	4.87	12.72	0.00	0.01	
ENSG00000182858	ALG12	ALG12, alpha-1,6-mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:19358]	protein coding	2.12	3.86	7.76	0.01	0.04	
ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	protein coding	2.12	5.12	18.51	0.00	0.00	
ENSG00000182199	SHMT2	serine hydroxymethyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10852]	protein coding	2.12	8.02	23.74	0.00	0.00	
ENSG00000059769	DNAJC25	DnaJ heat shock protein family (Hsp40) member C25 [Source:HGNC Symbol;Acc:HGNC:34187]	protein coding	2.12	4.56	12.78	0.00	0.01	
ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]	protein coding	2.12	6.64	30.41	0.00	0.00	
ENSG00000225200		ribosomal protein S8 (RPS8) pseudogene	processed pseudo-gene	-2.12	3.56	8.26	0.00	0.03	
ENSG00000207200	RNU6-45P	RNA, U6 small nuclear 45, pseudogene [Source:HGNC Symbol;Acc:HGNC:34289]	snRNA	2.12	3.93	10.02	0.00	0.02	
ENSG00000145390	USP53	ubiquitin specific peptidase 53 [Source:HGNC Symbol;Acc:HGNC:29255]	protein coding	2.12	5.84	25.79	0.00	0.00	
ENSG00000213593	TMX2	thioredoxin related transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:30739]	protein coding	2.12	5.98	21.80	0.00	0.00	
ENSG00000116521	SCAMP3	secretory carrier membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:10565]	protein coding	2.12	5.41	21.00	0.00	0.00	
ENSG00000124508	BTN2A2	butyrophilin subfamily 2 member A2 [Source:HGNC Symbol;Acc:HGNC:1137]	protein coding	2.11	4.15	12.57	0.00	0.01	
ENSG00000162298	SYVN1	synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]	protein coding	2.11	3.73	8.53	0.00	0.03	
ENSG00000199568	RNU5A-1	RNA, U5A small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10211]	snRNA	2.11	11.06	8.12	0.00	0.04	
ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	2.11	6.23	21.60	0.00	0.00	

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ENSG00000158615	PPP1R15B	protein phosphatase 1 regulatory subunit 15B [Source:HGNC Symbol;Acc:HGNC:14951]	protein coding	2.11	5.92	26.32	0.00	0.00	
ENSG00000187134	AKR1C1	aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384]	protein coding	-2.11	8.01	22.62	0.00	0.00	
ENSG00000118507	AKAP7	A-kinase anchoring protein 7 [Source:HGNC Symbol;Acc:HGNC:377]	protein coding	-2.11	3.55	7.94	0.00	0.04	
ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	protein coding	2.10	3.73	8.95	0.00	0.03	
ENSG00000207322	RNU1-89P	RNA, U1 small nuclear 89, pseudogene [Source:HGNC Symbol;Acc:HGNC:48431]	snRNA	2.10	3.92	10.80	0.00	0.01	
ENSG00000169155	ZBTB43	zinc finger and BTB domain containing 43 [Source:HGNC Symbol;Acc:HGNC:17908]	protein coding	2.10	4.40	13.94	0.00	0.00	
ENSG00000206936	RNU4-52P	RNA, U4 small nuclear 52, pseudogene [Source:HGNC Symbol;Acc:HGNC:46988]	snRNA	2.09	4.09	7.41	0.01	0.05	
ENSG00000138119	MYOF	myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]	protein coding	2.09	5.65	18.09	0.00	0.00	
ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	protein coding	2.09	7.97	23.98	0.00	0.00	
ENSG00000197937	ZNF347	zinc finger protein 347 [Source:HGNC Symbol;Acc:HGNC:16447]	protein coding	-2.09	3.55	7.64	0.01	0.04	
ENSG00000135334	AKIRIN2	akirin 2 [Source:HGNC Symbol;Acc:HGNC:21407]	protein coding	2.09	4.79	12.93	0.00	0.01	
ENSG00000146858	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like [Source:HGNC Symbol;Acc:HGNC:22423]	protein coding	-2.08	4.58	14.11	0.00	0.00	
ENSG00000144792	ZNF660	zinc finger protein 660 [Source:HGNC Symbol;Acc:HGNC:26720]	protein coding	-2.08	3.53	7.42	0.01	0.05	
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	2.08	4.04	10.77	0.00	0.01	
ENSG00000158158	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4 [Source:HGNC Symbol;Acc:HGNC:105]	protein coding	2.08	3.74	8.78	0.00	0.03	
ENSG00000137216	TMEM63B	transmembrane protein 63B [Source:HGNC Symbol;Acc:HGNC:17735]	protein coding	2.08	3.74	8.77	0.00	0.03	
ENSG00000137834	SMAD6	SMAD family member 6 [Source:HGNC Symbol;Acc:HGNC:6772]	protein coding	-2.08	5.21	10.48	0.00	0.01	
ENSG00000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	protein coding	2.08	5.26	15.48	0.00	0.00	
ENSG00000134548	SPX	spexin hormone [Source:HGNC Symbol;Acc:HGNC:28139]	protein coding	2.08	4.53	10.47	0.00	0.01	
ENSG00000148926	ADM	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]	protein coding	2.07	4.77	14.30	0.00	0.00	
ENSG00000165389	SPTSSA	serine palmitoyltransferase small subunit A [Source:HGNC Symbol;Acc:HGNC:20361]	protein coding	-2.07	3.77	8.42	0.00	0.03	
ENSG00000165282	PIGO	phosphatidylinositol glycan anchor biosynthesis class O [Source:HGNC Symbol;Acc:HGNC:23215]	protein coding	2.07	4.02	8.26	0.00	0.03	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000172270	BSG	basigin (Ok blood group) [Source:HGNC Symbol;Acc:HGNC:1116]	protein coding	2.07	7.20	25.26	0.00	0.00	
ENSG00000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]	protein coding	2.07	3.51	7.58	0.01	0.04	
ENSG00000126777	KTN1	kinectin 1 [Source:HGNC Symbol;Acc:HGNC:6467]	protein coding	2.07	8.43	21.19	0.00	0.00	
ENSG00000001036	FUCA2	alpha-L-fucosidase 2 [Source:HGNC Symbol;Acc:HGNC:4008]	protein coding	2.07	5.80	24.02	0.00	0.00	
ENSG00000125319	C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:HGNC:28460]	protein coding	2.07	4.66	15.10	0.00	0.00	
ENSG00000255468			antisense	-2.07	4.44	14.07	0.00	0.00	
ENSG00000252850	RNU1-117P	RNA, U1 small nuclear 117, pseudogene [Source:HGNC Symbol;Acc:HGNC:48459]	snRNA	2.07	3.73	8.66	0.00	0.03	
ENSG00000206702	RNU1-11P	RNA, U1 small nuclear 11, pseudogene [Source:HGNC Symbol;Acc:HGNC:10137]	snRNA	2.06	5.71	16.32	0.00	0.00	
ENSG00000110169	HPX	hemopexin [Source:HGNC Symbol;Acc:HGNC:5171]	protein coding	2.06	3.95	9.98	0.00	0.02	
ENSG00000143669	LYST	lysosomal trafficking regulator [Source:HGNC Symbol;Acc:HGNC:1968]	protein coding	2.06	3.95	10.30	0.00	0.02	
ENSG00000168564	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:HGNC:24325]	protein coding	2.06	4.11	11.68	0.00	0.01	
ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	protein coding	-2.06	5.19	12.41	0.00	0.01	
ENSG00000161888	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]	protein coding	-2.06	6.06	19.04	0.00	0.00	
ENSG00000068912	ERLEC1	endoplasmic reticulum lectin 1 [Source:HGNC Symbol;Acc:HGNC:25222]	protein coding	2.06	5.14	17.77	0.00	0.00	
ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]	protein coding	2.06	6.38	27.89	0.00	0.00	
ENSG00000005187	ACSM3	acyl-CoA synthetase medium chain family member 3 [Source:HGNC Symbol;Acc:HGNC:10522]	protein coding	-2.05	3.52	7.46	0.01	0.05	
ENSG00000080031	PTPRH	protein tyrosine phosphatase, receptor type H [Source:HGNC Symbol;Acc:HGNC:9672]	protein coding	2.05	5.16	15.60	0.00	0.00	
ENSG00000117523	PRRC2C	proline rich coiled-coil 2C [Source:HGNC Symbol;Acc:HGNC:24903]	protein coding	2.05	6.22	25.17	0.00	0.00	
ENSG00000197044	ZNF441	zinc finger protein 441 [Source:HGNC Symbol;Acc:HGNC:20875]	protein coding	2.05	3.76	8.08	0.00	0.04	
ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	protein coding	2.05	5.21	17.08	0.00	0.00	
ENSG00000168610	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]	protein coding	2.04	6.99	28.19	0.00	0.00	
ENSG00000242060	RPS3AP49	ribosomal protein S3a pseudogene 49 [Source:HGNC Symbol;Acc:HGNC:36810]	processed pseudogene	-2.04	4.12	9.64	0.00	0.02	
ENSG00000202538	RNU4-2	RNA, U4 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10193]	snRNA	2.04	10.11	8.29	0.00	0.03	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description			Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000086598	TMED2	transmembrane p24 trafficking protein 2	[Source:HGNC Symbol;Acc:HGNC:16996]	protein coding	2.04		6.58		26.76	0.00	0.00
ENSG00000150457	LATS2	large tumor suppressor kinase 2	[Source:HGNC Symbol;Acc:HGNC:6515]	protein coding	2.04		5.24		14.10	0.00	0.00
ENSG00000123384	LRP1	LDL receptor related protein 1	[Source:HGNC Symbol;Acc:HGNC:6692]	protein coding	2.04		6.28		24.66	0.00	0.00
ENSG00000166224	SGPL1	sphingosine-1-phosphate lyase 1	[Source:HGNC Symbol;Acc:HGNC:10817]	protein coding	2.04		4.00		8.50	0.00	0.03
ENSG00000264229	RNU4ATAC	RNA, U4atac small nuclear (U12-dependent splicing)	[Source:HGNC Symbol;Acc:HGNC:34016]	snRNA	2.04		8.47		16.16	0.00	0.00
ENSG00000207175	RNU1-67P	RNA, U1 small nuclear 67, pseudogene	[Source:HGNC Symbol;Acc:HGNC:48409]	snRNA	2.03		5.56		14.92	0.00	0.00
ENSG00000151229	SLC2A13	solute carrier family 2 member 13	[Source:HGNC Symbol;Acc:HGNC:15956]	protein coding	2.03		4.25		11.13	0.00	0.01
ENSG00000105223	PLD3	phospholipase D family member 3	[Source:HGNC Symbol;Acc:HGNC:17158]	protein coding	2.03		5.18		11.08	0.00	0.01
ENSG00000134970	TMED7	transmembrane p24 trafficking protein 7	[Source:HGNC Symbol;Acc:HGNC:24253]	protein coding	2.03		5.82		14.28	0.00	0.00
ENSG00000074842	MYDGF	myeloid derived growth factor	[Source:HGNC Symbol;Acc:HGNC:16948]	protein coding	2.03		4.83		15.14	0.00	0.00
ENSG00000141582	CBX4	chromobox 4	[Source:HGNC Symbol;Acc:HGNC:1554]	protein coding	2.03		4.95		15.57	0.00	0.00
ENSG00000180210	F2	coagulation factor II, thrombin	[Source:HGNC Symbol;Acc:HGNC:3535]	protein coding	2.03		3.87		8.34	0.00	0.03
ENSG00000188290	HES4	hes family bHLH transcription factor 4	[Source:HGNC Symbol;Acc:HGNC:24149]	protein coding	2.03		5.81		18.34	0.00	0.00
ENSG00000258429	PDF	peptide deformylase, mitochondrial	[Source:HGNC Symbol;Acc:HGNC:30012]	protein coding	-2.03		3.51		7.40	0.01	0.05
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase	[Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	2.03		6.17		22.45	0.00	0.00
ENSG00000245848	CEBPA	CCAAT enhancer binding protein alpha	[Source:HGNC Symbol;Acc:HGNC:1833]	protein coding	-2.03		6.47		25.27	0.00	0.00
ENSG0000004866	ST7	suppression of tumorigenicity 7	[Source:HGNC Symbol;Acc:HGNC:11351]	protein coding	2.02		4.06		10.61	0.00	0.01
ENSG00000133460	SLC2A11	solute carrier family 2 member 11	[Source:HGNC Symbol;Acc:HGNC:14239]	protein coding	2.02		3.68		8.33	0.00	0.03
ENSG00000196739	COL27A1	collagen type XXVII alpha 1 chain	[Source:HGNC Symbol;Acc:HGNC:22986]	protein coding	-2.02		3.73		7.50	0.01	0.05
ENSG00000132801	ZSWIM3	zinc finger SWIM-type containing 3	[Source:HGNC Symbol;Acc:HGNC:16157]	protein coding	2.02		4.03		9.91	0.00	0.02
ENSG00000216775				transcribed unprocessed pseudo-gene	-2.02		4.95		16.00	0.00	0.00

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	protein coding	-2.02	4.76	14.68	0.00	0.00	
ENSG00000099203	TMED1	transmembrane p24 trafficking protein 1 [Source:HGNC Symbol;Acc:HGNC:17291]	protein coding	2.02	4.18	11.92	0.00	0.01	
ENSG00000101194	SLC17A9	solute carrier family 17 member 9 [Source:HGNC Symbol;Acc:HGNC:16192]	protein coding	2.02	6.04	20.34	0.00	0.00	
ENSG00000111328	CDK2AP1	cyclin dependent kinase 2 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:14002]	protein coding	-2.01	5.04	12.25	0.00	0.01	
ENSG00000100592	DAAM1	dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:HGNC:18142]	protein coding	2.01	5.20	17.14	0.00	0.00	
ENSG00000170017	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:400]	protein coding	2.01	4.96	15.37	0.00	0.00	
ENSG00000065911	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase [Source:HGNC Symbol;Acc:HGNC:7434]	protein coding	2.01	6.10	23.03	0.00	0.00	
ENSG00000100034	PPM1F	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1F [Source:HGNC Symbol;Acc:HGNC:19388]	protein coding	-2.01	5.24	10.96	0.00	0.01	
ENSG00000150093	ITGB1	integrin subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:6153]	protein coding	2.00	6.62	28.45	0.00	0.00	
ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]	misc RNA	2.00	4.80	10.51	0.00	0.01	
ENSG00000183098	GPC6	glypican 6 [Source:HGNC Symbol;Acc:HGNC:4454]	protein coding	2.00	3.91	8.98	0.00	0.03	
ENSG00000134352	IL6ST	interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:6021]	protein coding	2.00	7.53	22.37	0.00	0.00	

Table 8: Genes differentially expressed at 40h PI compared to pre-treatment (RNA-Seq, Huh7, cytosol). Sorted by descending absolute \log_2 fold change (Day 40 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (6h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]	misc RNA	-6.86	12.23	55.97	0.00	0.00	
ENSG00000239899	RN7SL674P	RNA, 7SL, cytoplasmic 674, pseudogene [Source:HGNC Symbol;Acc:HGNC:46690]	misc RNA	-4.09	12.88	23.07	0.00	0.00	
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	misc RNA	-3.94	4.78	29.70	0.00	0.00	
ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	misc RNA	-3.51	4.17	22.48	0.00	0.00	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-3.38	4.02	24.37	0.00	0.00	
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	snRNA	-3.23	5.34	23.20	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description		Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (6h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000200436				misc RNA	-2.94	4.11	18.06	0.00	0.03	
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]		misc RNA	-2.58	5.92	34.67	0.00	0.00	
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]		snRNA	-2.47	7.32	24.52	0.00	0.00	
ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]		snRNA	-2.31	6.83	17.89	0.00	0.03	

Table 9: Genes differentially expressed at 6h PI compared to pre-treatment (RNA-Seq, Huh7, ER). Sorted by descending absolute \log_2 fold change (Day 6 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description		Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (12h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000278898		TEC		TEC	-6.44	3.06	16.25	0.00	0.03	
ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]		snRNA	-5.21	6.31	26.57	0.00	0.00	
ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]		misc RNA	-4.83	8.51	16.14	0.00	0.03	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]		misc RNA	-4.01	4.01	26.78	0.00	0.00	
ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]		snRNA	-3.84	6.97	18.30	0.00	0.01	
ENSG00000196482	ESRRG	estrogen related receptor gamma [Source:HGNC Symbol;Acc:HGNC:3474]		protein coding	-3.55	5.56	17.62	0.00	0.02	
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]		snRNA	-3.31	5.31	25.75	0.00	0.00	
ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]		snRNA	-3.21	4.97	19.78	0.00	0.01	
ENSG00000259697		novel transcript		lincRNA	-3.01	6.08	18.55	0.00	0.01	
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]		snRNA	-3.00	7.24	23.17	0.00	0.00	
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]		misc RNA	-2.91	5.85	42.84	0.00	0.00	
ENSG00000202306				misc RNA	-2.78	7.59	22.16	0.00	0.00	
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]		misc RNA	-2.73	4.86	20.02	0.00	0.01	
ENSG00000200436				misc RNA	-2.61	4.16	15.61	0.00	0.04	
ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]		snRNA	-2.54	6.78	18.45	0.00	0.01	
ENSG00000207204	RNU6-393P	RNA, U6 small nuclear 393, pseudogene [Source:HGNC Symbol;Acc:HGNC:47356]		snRNA	-2.50	5.47	19.62	0.00	0.01	
ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene [Source:HGNC Symbol;Acc:HGNC:46470]		misc RNA	-2.49	7.02	23.36	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description		Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (12h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Ad- justed P- Value
ENSG00000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]		misc RNA	-2.46	7.60	23.53	0.00	0.00	
ENSG00000265486	RN7SL518P	RNA, 7SL, cytoplasmic 518, pseudogene [Source:HGNC Symbol;Acc:HGNC:46534]		misc RNA	-2.44	7.18	18.63	0.00	0.01	
ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]		snRNA	-2.27	5.24	18.87	0.00	0.01	
ENSG00000243420	RN7SL734P	RNA, 7SL, cytoplasmic 734, pseudogene [Source:HGNC Symbol;Acc:HGNC:46750]		misc RNA	-2.25	8.17	25.08	0.00	0.00	
ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]		misc RNA	-2.23	6.21	19.71	0.00	0.01	
ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]		misc RNA	-2.18	7.42	18.59	0.00	0.01	
ENSG00000206822				misc RNA	-2.04	5.95	18.70	0.00	0.01	

Table 10: Genes differentially expressed at 12h PI compared to pre-treatment (RNA-Seq, Huh7, ER). Sorted by descending absolute \log_2 fold change (Day 12 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description		Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Ad- justed P- Value
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]		protein coding	8.28	4.30	51.43	0.00	0.00	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]		protein coding	6.81	2.99	21.65	0.00	0.00	
ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]		misc RNA	-6.48	12.23	34.81	0.00	0.00	
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]		protein coding	6.41	4.75	72.71	0.00	0.00	
ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]		protein coding	6.16	2.60	15.88	0.00	0.01	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]		protein coding	5.92	5.96	88.63	0.00	0.00	
ENSG00000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]		protein coding	5.87	2.45	12.82	0.00	0.04	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]		protein coding	5.84	2.32	12.52	0.00	0.05	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]		protein coding	5.75	4.92	71.32	0.00	0.00	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]		protein coding	5.60	4.75	68.78	0.00	0.00	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]		protein coding	5.07	3.57	32.91	0.00	0.00	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]		protein coding	4.83	4.86	57.86	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudo-gene	4.71	3.27	24.15	0.00	0.00	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	4.65	4.37	50.37	0.00	0.00	
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	protein coding	4.65	3.19	25.13	0.00	0.00	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	4.55	4.67	54.57	0.00	0.00	
ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]	misc RNA	-4.51	8.52	13.61	0.00	0.03	
ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	misc RNA	-4.42	9.73	14.33	0.00	0.02	
ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]	snRNA	-4.32	6.32	22.74	0.00	0.00	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-3.90	3.93	28.17	0.00	0.00	
ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	3.85	4.59	45.11	0.00	0.00	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	3.76	3.34	17.33	0.00	0.01	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	3.64	4.68	40.47	0.00	0.00	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	3.63	3.51	23.89	0.00	0.00	
ENSG0000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	3.59	3.67	20.17	0.00	0.00	
ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	snRNA	-3.55	6.98	16.16	0.00	0.01	
ENSG00000240087	RPSAP12	ribosomal protein SA pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:6504]	processed pseudo-gene	-3.52	3.15	13.48	0.00	0.03	
ENSG00000199562	RNU6-37P	RNA, U6 small nuclear 37, pseudogene [Source:HGNC Symbol;Acc:HGNC:34281]	snRNA	-3.49	7.13	12.61	0.00	0.04	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	3.22	3.52	18.17	0.00	0.00	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	3.16	4.42	32.13	0.00	0.00	
ENSG00000207003	RNU6-611P	RNA, U6 small nuclear 611, pseudogene [Source:HGNC Symbol;Acc:HGNC:47574]	snRNA	-3.15	3.60	15.91	0.00	0.01	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	3.12	3.11	14.83	0.00	0.02	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description					Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]					protein coding	3.11	3.71	14.81	0.00	0.02	
ENSG00000200436							misc RNA	-3.11	4.04	19.99	0.00	0.00	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]					protein coding	3.10	5.76	51.51	0.00	0.00	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]					protein coding	3.09	4.34	28.42	0.00	0.00	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]					protein coding	3.08	7.29	53.67	0.00	0.00	
ENSG00000196482	ESRRG	estrogen related receptor gamma [Source:HGNC Symbol;Acc:HGNC:3474]					protein coding	-3.07	5.58	15.27	0.00	0.01	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]					protein coding	3.06	4.82	29.68	0.00	0.00	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]					protein coding	3.04	4.71	34.47	0.00	0.00	
ENSG00000199223							misc RNA	-3.04	3.24	13.47	0.00	0.03	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]					protein coding	3.04	4.52	30.85	0.00	0.00	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]					protein coding	2.99	5.02	38.68	0.00	0.00	
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]					protein coding	2.97	4.63	22.85	0.00	0.00	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]					protein coding	2.89	3.56	13.84	0.00	0.03	
ENSG00000202306							misc RNA	-2.86	7.57	26.13	0.00	0.00	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]					protein coding	2.81	7.00	40.69	0.00	0.00	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]					protein coding	2.79	5.56	40.67	0.00	0.00	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]					protein coding	2.79	5.38	38.16	0.00	0.00	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]					protein coding	2.79	3.90	20.58	0.00	0.00	
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]					protein coding	2.77	4.81	31.71	0.00	0.00	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]					protein coding	2.77	6.49	45.82	0.00	0.00	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]					protein coding	2.76	3.50	16.43	0.00	0.01	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]					protein coding	2.75	6.37	43.15	0.00	0.00	
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]					protein coding	2.70	4.96	33.00	0.00	0.00	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]					protein coding	2.69	6.06	41.29	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	2.68	6.18	45.10	0.00	0.00	
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	snRNA	-2.63	5.36	18.86	0.00	0.00	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	2.61	4.68	27.59	0.00	0.00	
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	misc RNA	-2.55	4.86	16.74	0.00	0.01	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	2.55	4.60	26.64	0.00	0.00	
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	2.50	4.65	26.44	0.00	0.00	
ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	misc RNA	-2.48	4.22	14.12	0.00	0.02	
ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	protein coding	2.38	4.68	21.86	0.00	0.00	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	2.34	4.30	15.79	0.00	0.01	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	2.31	4.71	21.49	0.00	0.00	
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	2.25	4.77	23.63	0.00	0.00	
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	2.23	8.19	27.64	0.00	0.00	
ENSG00000206822			misc RNA	-2.22	5.90	23.71	0.00	0.00	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	2.17	4.44	13.71	0.00	0.03	
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	2.16	4.79	20.42	0.00	0.00	
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	snRNA	-2.15	7.36	17.48	0.00	0.01	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	2.15	5.20	18.59	0.00	0.00	
ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	protein coding	2.13	4.00	13.99	0.00	0.02	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	2.11	4.66	19.74	0.00	0.00	
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	2.10	5.79	26.54	0.00	0.00	
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	misc RNA	-2.07	5.97	20.25	0.00	0.00	
ENSG00000172216	CEBPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	2.07	6.33	30.20	0.00	0.00	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.07	5.78	26.38	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	2.07	6.06	22.60	0.00	0.00	
ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.03	5.58	20.67	0.00	0.00	
ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	2.03	6.51	27.77	0.00	0.00	

Table 11: Genes differentially expressed at 24h PI compared to pre-treatment (RNA-Seq, Huh7, ER). Sorted by descending absolute \log_2 fold change (Day 24 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	protein coding	10.65	6.58	172.42	0.00	0.00	
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	10.58	6.52	162.46	0.00	0.00	
ENSG00000135114	OASL	2'-5' oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	9.67	7.93	187.56	0.00	0.00	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	9.46	5.44	103.78	0.00	0.00	
ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	protein coding	8.53	4.56	64.80	0.00	0.00	
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	protein coding	8.45	4.50	68.72	0.00	0.00	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	8.33	6.61	162.83	0.00	0.00	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	8.22	7.32	180.38	0.00	0.00	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	8.16	8.15	159.77	0.00	0.00	
ENSG00000262074	SNORD3B-2	small nucleolar RNA, C/D box 3B-2 [Source:HGNC Symbol;Acc:HGNC:33190]	snoRNA	7.84	6.77	21.35	0.00	0.00	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	7.74	7.33	173.24	0.00	0.00	
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	protein coding	7.73	3.84	46.01	0.00	0.00	
ENSG00000230021			transcribed processed pseudo-gene	-7.68	3.23	14.09	0.00	0.00	
ENSG0000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	7.65	3.77	42.15	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	protein coding	7.58	3.71	42.80	0.00	0.00	
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3797]	protein coding	7.25	3.42	32.66	0.00	0.00	
ENSG00000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]	protein coding	7.16	3.35	33.15	0.00	0.00	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	7.03	7.01	153.36	0.00	0.00	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	6.92	6.03	144.58	0.00	0.00	
ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	protein coding	6.82	3.06	23.67	0.00	0.00	
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	protein coding	6.75	3.03	25.52	0.00	0.00	
ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]	protein coding	6.60	2.91	23.45	0.00	0.00	
ENSG00000248643	RBM14-RBM4	RBM14-RBM4 readthrough [Source:HGNC Symbol;Acc:HGNC:38840]	protein coding	-6.58	2.80	22.52	0.00	0.00	
ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	protein coding	6.53	2.92	13.53	0.00	0.00	
ENSG00000204869	IGFL4	IGF like family member 4 [Source:HGNC Symbol;Acc:HGNC:32931]	protein coding	6.48	2.79	17.87	0.00	0.00	
ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	protein coding	6.45	2.78	20.23	0.00	0.00	
ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	antisense	6.44	2.80	19.93	0.00	0.00	
ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	protein coding	6.39	2.69	13.69	0.00	0.00	
ENSG00000144857	BOC	BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]	protein coding	6.26	2.65	19.08	0.00	0.00	
ENSG00000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	protein coding	6.25	2.62	16.08	0.00	0.00	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	6.25	6.30	136.76	0.00	0.00	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	protein coding	6.23	2.62	17.38	0.00	0.00	
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	6.19	4.56	65.51	0.00	0.00	
ENSG00000265641	MIR3929	microRNA 3929 [Source:HGNC Symbol;Acc:HGNC:38945]	miRNA	6.18	2.60	19.15	0.00	0.00	
ENSG00000148123	PLPPR1	phospholipid phosphatase related 1 [Source:HGNC Symbol;Acc:HGNC:25993]	protein coding	-6.17	2.55	17.74	0.00	0.00	
ENSG00000199890			misc RNA	-6.15	2.51	16.77	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P- Value
ENSG00000228347	FTLP17	ferritin light chain pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37967]	processed pseudo-gene	-6.14	2.47	16.67	0.00	0.00	
ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	protein coding	6.14	4.49	55.00	0.00	0.00	
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	protein coding	6.12	4.49	66.81	0.00	0.00	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	6.11	7.12	155.12	0.00	0.00	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudo-gene	6.10	4.51	60.82	0.00	0.00	
ENSG00000266651		novel transcript	lincRNA	-6.05	2.48	17.31	0.00	0.00	
ENSG00000248473	LINC01962	long intergenic non-protein coding RNA 1962 [Source:HGNC Symbol;Acc:HGNC:52787]	lincRNA	-6.04	11.51	19.12	0.00	0.00	
ENSG00000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	protein coding	6.02	2.49	15.88	0.00	0.00	
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	protein coding	6.01	2.48	15.39	0.00	0.00	
ENSG00000246130		antisense	5.90	2.41	14.18	0.00	0.00		
ENSG00000134240	HMGCS2	3-hydroxy-3-methylglutaryl-CoA synthase 2 [Source:HGNC Symbol;Acc:HGNC:5008]	protein coding	-5.89	2.45	13.25	0.00	0.00	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	5.88	5.13	75.44	0.00	0.00	
ENSG00000225531		MMRP19 pseudogene	processed pseudo-gene	-5.86	2.11	10.17	0.00	0.01	
ENSG00000113209	PCDHB5	protocadherin beta 5 [Source:HGNC Symbol;Acc:HGNC:8690]	protein coding	-5.83	2.36	14.27	0.00	0.00	
ENSG00000250348		novel transcript	antisense	-5.68	2.20	13.00	0.00	0.00	
ENSG00000102312	PORCN	porcupine O-acyltransferase [Source:HGNC Symbol;Acc:HGNC:17652]	protein coding	-5.62	2.18	12.69	0.00	0.00	
ENSG00000136235	GPNMB	glycoprotein nmb [Source:HGNC Symbol;Acc:HGNC:4462]	protein coding	-5.61	2.08	10.38	0.00	0.01	
ENSG00000255508		novel transcript	protein coding	-5.51	2.12	11.31	0.00	0.01	
ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]	protein coding	5.50	2.15	11.67	0.00	0.01	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	5.48	5.18	89.88	0.00	0.00	
ENSG00000247903		novel transcript, antisense to TM7SF3	antisense	-5.44	2.10	11.34	0.00	0.01	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	5.43	6.33	121.49	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000237913	FTLP19	ferritin light chain pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:37969]	processed pseudo-gene	-5.43	1.92	8.53	0.00	0.02	
ENSG00000260389	WBP11P1	WW domain binding protein 11 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:26250]	transcribed processed pseudo-gene	-5.35	1.83	7.50	0.01	0.03	
ENSG00000226855	RPSAP17	ribosomal protein SA pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:35707]	processed pseudo-gene	-5.35	1.83	7.52	0.01	0.03	
ENSG00000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	protein coding	5.32	3.78	43.49	0.00	0.00	
ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]	misc RNA	-5.31	8.47	18.45	0.00	0.00	
ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	misc RNA	-5.23	9.69	19.27	0.00	0.00	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	5.23	6.35	127.55	0.00	0.00	
ENSG00000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:2561]	protein coding	5.16	3.65	34.89	0.00	0.00	
ENSG00000261114		novel transcript, sense intronic to HERPUD1	sense intronic	5.13	1.97	7.59	0.01	0.03	
ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	protein coding	5.09	3.58	31.71	0.00	0.00	
ENSG00000242769	RN7SL432P	RNA, 7SL cytoplasmic 432, pseudogene [Source:HGNC Symbol;Acc:HGNC:46448]	misc RNA	-5.05	1.72	6.69	0.01	0.05	
ENSG00000187017	ESPN	espin [Source:HGNC Symbol;Acc:HGNC:13281]	protein coding	-5.05	1.87	8.83	0.00	0.02	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	5.04	4.78	71.63	0.00	0.00	
ENSG00000199562	RNU6-37P	RNA, U6 small nuclear 37, pseudogene [Source:HGNC Symbol;Acc:HGNC:34281]	snRNA	-5.01	7.00	24.68	0.00	0.00	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	5.01	6.51	117.57	0.00	0.00	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	5.00	6.13	96.61	0.00	0.00	
ENSG00000242101	RN7SL416P	RNA, 7SL cytoplasmic 416, pseudogene [Source:HGNC Symbol;Acc:HGNC:46432]	misc RNA	-5.00	1.80	7.78	0.01	0.03	
ENSG00000167355	OR51B5	olfactory receptor family 51 subfamily B member 5 [Source:HGNC Symbol;Acc:HGNC:19599]	protein coding	-5.00	1.80	7.81	0.01	0.03	
ENSG00000206905			misc RNA	-5.00	1.80	7.83	0.01	0.03	
ENSG00000053702	NRIP2	nuclear receptor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:23078]	protein coding	-4.89	1.78	7.48	0.01	0.03	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	4.88	6.73	113.31	0.00	0.00	

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ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	4.88	6.76	125.72	0.00	0.00	
ENSG00000283414			snRNA	-4.87	3.19	19.29	0.00	0.00	
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]	protein coding	4.86	5.25	89.21	0.00	0.00	
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	4.85	4.70	61.32	0.00	0.00	
ENSG00000104140	RHOV	ras homolog family member V [Source:HGNC Symbol;Acc:HGNC:18313]	protein coding	4.83	1.79	6.91	0.01	0.04	
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	4.83	6.75	114.88	0.00	0.00	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	4.80	8.36	99.74	0.00	0.00	
ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	protein coding	4.76	4.86	43.42	0.00	0.00	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	4.71	6.06	105.05	0.00	0.00	
ENSG00000241959	RN7SL76P	RNA, 7SL, cytoplasmic 76, pseudogene [Source:HGNC Symbol;Acc:HGNC:46092]	misc RNA	-4.70	1.69	6.87	0.01	0.04	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	4.70	5.16	77.07	0.00	0.00	
ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	protein coding	4.68	5.14	78.73	0.00	0.00	
ENSG00000137821	LRRC49	leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:HGNC:25965]	protein coding	4.61	4.42	54.97	0.00	0.00	
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	protein coding	4.60	3.17	22.78	0.00	0.00	
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	4.58	6.84	117.14	0.00	0.00	
ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene) [Source:HGNC Symbol;Acc:HGNC:4969]	unprocessed pseudo-gene	4.56	3.15	26.29	0.00	0.00	
ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	4.53	8.76	82.06	0.00	0.00	
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	protein coding	4.52	5.49	81.03	0.00	0.00	
ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	lincRNA	4.50	3.11	24.97	0.00	0.00	
ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	4.48	5.21	58.30	0.00	0.00	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	4.43	6.99	117.21	0.00	0.00	
ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	protein coding	4.41	3.04	23.02	0.00	0.00	

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ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	protein coding	-4.39	3.06	16.99	0.00	0.00	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	4.38	8.11	82.93	0.00	0.00	
ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	protein coding	4.34	4.19	43.11	0.00	0.00	
ENSG00000207005	RNU1-2	RNA, U1 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10123]	snRNA	4.27	7.53	11.57	0.00	0.01	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	4.25	7.74	95.77	0.00	0.00	
ENSG00000116761	CTH	cystathione gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	4.20	6.32	102.02	0.00	0.00	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	4.20	4.37	46.86	0.00	0.00	
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	4.19	6.57	102.75	0.00	0.00	
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	snRNA	-4.19	5.14	40.81	0.00	0.00	
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	protein coding	4.19	4.05	35.55	0.00	0.00	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	4.18	5.83	93.25	0.00	0.00	
ENSG00000207003	RNU6-611P	RNA, U6 small nuclear 611, pseudogene [Source:HGNC Symbol;Acc:HGNC:47574]	snRNA	-4.18	3.45	24.82	0.00	0.00	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	4.17	6.63	98.52	0.00	0.00	
ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	protein coding	4.17	3.58	30.83	0.00	0.00	
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	4.15	4.87	61.95	0.00	0.00	
ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	protein coding	4.14	4.39	49.54	0.00	0.00	
ENSG00000207428	RNU6-95P	RNA, U6 small nuclear 95, pseudogene [Source:HGNC Symbol;Acc:HGNC:47058]	snRNA	-4.14	2.76	15.62	0.00	0.00	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	4.13	8.26	86.31	0.00	0.00	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	4.12	4.64	51.92	0.00	0.00	
ENSG00000206822			misc RNA	-4.12	5.64	61.63	0.00	0.00	
ENSG00000244067	GSTA2	glutathione S-transferase alpha 2 [Source:HGNC Symbol;Acc:HGNC:4627]	protein coding	-4.09	3.38	23.56	0.00	0.00	
ENSG00000116675	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6 [Source:HGNC Symbol;Acc:HGNC:15469]	protein coding	-4.05	2.74	16.68	0.00	0.00	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	4.04	8.11	82.45	0.00	0.00	

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ENSG00000189060	H1F0	H1 histone family member 0 [Source:HGNC Symbol;Acc:HGNC:4714]	protein coding	4.03	4.76	55.83	0.00	0.00	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	4.03	6.69	85.70	0.00	0.00	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	4.02	6.22	69.02	0.00	0.00	
ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	protein coding	4.00	4.44	38.26	0.00	0.00	
ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	protein coding	3.99	3.38	22.88	0.00	0.00	
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	protein coding	3.99	4.92	59.82	0.00	0.00	
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	protein coding	3.97	6.31	92.33	0.00	0.00	
ENSG00000270069	MIR222HG	miR222/221 cluster host gene [Source:HGNC Symbol;Acc:HGNC:49555]	lincRNA	3.97	2.63	8.70	0.00	0.02	
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	protein coding	3.96	6.54	96.63	0.00	0.00	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	3.94	7.61	87.97	0.00	0.00	
ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	protein coding	3.94	4.15	42.24	0.00	0.00	
ENSG00000258102	MAP1LC3B2	microtubule associated protein 1 light chain 3 beta 2 [Source:HGNC Symbol;Acc:HGNC:34390]	protein coding	3.92	2.74	10.97	0.00	0.01	
ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]	protein coding	3.91	3.34	25.44	0.00	0.00	
ENSG00000133106	EPSTI1	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]	protein coding	3.89	3.80	35.05	0.00	0.00	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	3.88	5.93	64.69	0.00	0.00	
ENSG00000137767	SQOR	sulfide quinone oxidoreductase [Source:HGNC Symbol;Acc:HGNC:20390]	protein coding	3.88	2.65	15.28	0.00	0.00	
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	protein coding	3.87	6.79	83.97	0.00	0.00	
ENSG00000200494			misc RNA	-3.87	2.55	12.13	0.00	0.01	
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	protein coding	3.87	3.73	27.54	0.00	0.00	
ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	protein coding	3.87	2.65	14.20	0.00	0.00	
ENSG00000226067	LINC00623	long intergenic non-protein coding RNA 623 [Source:HGNC Symbol;Acc:HGNC:44252]	lincRNA	3.85	3.19	11.82	0.00	0.01	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	3.84	7.10	83.20	0.00	0.00	
ENSG00000179242	CDH4	cadherin 4 [Source:HGNC Symbol;Acc:HGNC:1763]	protein coding	3.84	2.67	14.78	0.00	0.00	

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ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	3.84	3.32	23.93	0.00	0.00	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	3.82	6.16	87.04	0.00	0.00	
ENSG00000196526	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24017]	protein coding	3.80	2.60	14.27	0.00	0.00	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	3.78	6.63	92.80	0.00	0.00	
ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]	snRNA	-3.77	4.96	44.77	0.00	0.00	
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	3.74	7.22	91.62	0.00	0.00	
ENSG00000165471	MBL2	mannose binding lectin 2 [Source:HGNC Symbol;Acc:HGNC:6922]	protein coding	-3.74	3.19	21.31	0.00	0.00	
ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	protein coding	3.74	4.92	53.01	0.00	0.00	
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	protein coding	3.74	4.53	46.61	0.00	0.00	
ENSG00000152439	ZNF773	zinc finger protein 773 [Source:HGNC Symbol;Acc:HGNC:30487]	protein coding	3.73	3.20	21.18	0.00	0.00	
ENSG00000251411		actin related protein 2/3 complex, subunit 1A, 41kDa (ARPC1A) pseudogene	processed pseudogene	-3.73	2.48	11.54	0.00	0.01	
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	protein coding	3.71	5.66	66.61	0.00	0.00	
ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	protein coding	3.71	5.25	68.14	0.00	0.00	
ENSG00000259614		tubulin, alpha 1a (TUBA1A) pseudogene	processed pseudogene	-3.70	2.38	9.05	0.00	0.02	
ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	protein coding	3.70	4.82	48.62	0.00	0.00	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	3.70	5.61	75.98	0.00	0.00	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	protein coding	3.69	4.69	42.33	0.00	0.00	
ENSG00000117586	TNFSF4	TNF superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:11934]	protein coding	-3.69	2.52	11.28	0.00	0.01	
ENSG00000252996	RNU6-1315P	RNA, U6 small nuclear 1315, pseudogene [Source:HGNC Symbol;Acc:HGNC:48278]	snRNA	-3.67	3.11	21.21	0.00	0.00	
ENSG00000199827	RNU6-1290P	RNA, U6 small nuclear 1290, pseudogene [Source:HGNC Symbol;Acc:HGNC:48253]	snRNA	-3.67	3.52	24.67	0.00	0.00	
ENSG00000207198	RNU6-1195P	RNA, U6 small nuclear 1195, pseudogene [Source:HGNC Symbol;Acc:HGNC:48158]	snRNA	-3.66	2.42	10.44	0.00	0.01	

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ENSG00000217648		pseudogene similar to presenilin associated, rhomboid-like PARL	processed pseudo-gene	-3.66	2.42	10.44	0.00	0.01	
ENSG00000269888		novel transcript	lincRNA	-3.66	2.42	10.44	0.00	0.01	
ENSG00000243488	RN7SL337P	RNA, 7SL, cytoplasmic 337, pseudogene [Source:HGNC Symbol;Acc:HGNC:46353]	misc RNA	-3.66	3.35	15.09	0.00	0.00	
ENSG00000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]	protein coding	3.65	4.24	28.46	0.00	0.00	
ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	protein coding	3.65	6.55	82.65	0.00	0.00	
ENSG00000207293			misc RNA	-3.65	2.32	8.12	0.00	0.03	
ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]	protein coding	3.64	3.93	33.67	0.00	0.00	
ENSG00000199366			misc RNA	-3.60	2.36	9.38	0.00	0.02	
ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]	protein coding	-3.59	3.50	27.20	0.00	0.00	
ENSG00000165376	CLDN2	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	protein coding	-3.58	3.08	18.46	0.00	0.00	
ENSG00000230647		novel transcript	lincRNA	3.58	2.51	9.39	0.00	0.02	
ENSG00000132639	SNAP25	synaptosome associated protein 25 [Source:HGNC Symbol;Acc:HGNC:11132]	protein coding	3.57	2.49	11.59	0.00	0.01	
ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]	protein coding	3.55	3.86	30.78	0.00	0.00	
ENSG00000232587	EEF1A1P3	eukaryotic translation elongation factor 1 alpha 1 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:3194]	processed pseudo-gene	-3.53	2.30	8.37	0.00	0.02	
ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	transcribed unprocessed pseudo-gene	3.52	2.37	7.67	0.01	0.03	
ENSG00000201758	RN7SKP55	RNA, 7SK small nuclear pseudogene 55 [Source:HGNC Symbol;Acc:HGNC:45779]	misc RNA	-3.51	8.25	12.23	0.00	0.00	
ENSG00000251432	LINC02615	long intergenic non-protein coding RNA 2615 [Source:HGNC Symbol;Acc:HGNC:53402]	lincRNA	3.51	2.41	9.91	0.00	0.01	
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	protein coding	3.50	3.46	25.26	0.00	0.00	
ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	protein coding	3.50	3.03	18.54	0.00	0.00	
ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	protein coding	3.50	4.30	39.83	0.00	0.00	
ENSG0000015568	RGPD5	RANBP2-like and GRIP domain containing 5 [Source:HGNC Symbol;Acc:HGNC:32418]	protein coding	3.50	3.06	15.55	0.00	0.00	
ENSG00000215252	GOLGA8B	golgin A8 family member B [Source:HGNC Symbol;Acc:HGNC:31973]	protein coding	3.48	2.45	8.97	0.00	0.02	

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ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	protein coding	3.48	5.09	42.38	0.00	0.00	
ENSG00000267620		general transcription factor IIH, polypeptide 1, 62kDa pseudogene	processed pseudo-gene	3.46	2.36	9.13	0.00	0.02	
ENSG00000187860	CCDC157	coiled-coil domain containing 157 [Source:HGNC Symbol;Acc:HGNC:33854]	protein coding	3.46	2.36	9.13	0.00	0.02	
ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]	protein coding	3.45	4.41	38.55	0.00	0.00	
ENSG00000202137			misc RNA	-3.44	2.36	9.55	0.00	0.01	
ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]	protein coding	-3.44	2.33	9.96	0.00	0.01	
ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma 1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	protein coding	3.44	3.40	21.85	0.00	0.00	
ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	protein coding	3.44	3.98	21.57	0.00	0.00	
ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	protein coding	3.43	6.03	64.17	0.00	0.00	
ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	protein coding	3.43	6.27	75.03	0.00	0.00	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	3.43	5.97	60.03	0.00	0.00	
ENSG00000259248	USP3-AS1	USP3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44140]	antisense	-3.42	2.36	9.37	0.00	0.02	
ENSG00000240023		ribosomal protein, large, P0 (RPLP0) pseudogene	processed pseudo-gene	-3.42	2.84	11.91	0.00	0.01	
ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	protein coding	3.42	6.71	63.18	0.00	0.00	
ENSG00000200860			misc RNA	-3.40	2.29	8.53	0.00	0.02	
ENSG00000163501	IHH	indian hedgehog [Source:HGNC Symbol;Acc:HGNC:5956]	protein coding	-3.40	2.32	9.74	0.00	0.01	
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	protein coding	3.40	4.60	40.01	0.00	0.00	
ENSG00000234155	LINC02535	long intergenic non-protein coding RNA 2535 [Source:HGNC Symbol;Acc:HGNC:53569]	lincRNA	-3.39	2.32	9.61	0.00	0.01	
ENSG00000166188	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:HGNC:13644]	protein coding	3.37	2.93	14.47	0.00	0.00	
ENSG00000131781	FMO5	flavin containing monooxygenase 5 [Source:HGNC Symbol;Acc:HGNC:3773]	protein coding	-3.37	2.90	16.34	0.00	0.00	
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	protein coding	3.37	6.65	79.66	0.00	0.00	
ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]	protein coding	3.36	5.59	63.50	0.00	0.00	
ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	protein coding	3.35	7.08	77.74	0.00	0.00	

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ENSG00000213757		ribosomal protein S3A (RPS3A) pseudogene	processed pseudo-gene	-3.34	2.22	7.67	0.01	0.03	
ENSG00000173262	SLC2A14	solute carrier family 2 member 14 [Source:HGNC Symbol;Acc:HGNC:18301]	protein coding	-3.34	2.22	7.67	0.01	0.03	
ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]	protein coding	3.34	2.95	15.23	0.00	0.00	
ENSG00000283162		STRA6-like (Stra6l) pseudogene	transcribed unprocessed pseudo-gene	3.34	2.90	15.24	0.00	0.00	
ENSG00000168016	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:29011]	protein coding	3.33	4.49	31.90	0.00	0.00	
ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]	protein coding	3.33	4.84	45.38	0.00	0.00	
ENSG00000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:4525]	protein coding	3.31	3.43	19.68	0.00	0.00	
ENSG00000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like [Source:HGNC Symbol;Acc:HGNC:15797]	protein coding	3.31	4.17	34.85	0.00	0.00	
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	3.31	6.76	74.23	0.00	0.00	
ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	misc RNA	-3.31	4.03	27.09	0.00	0.00	
ENSG00000054219	LY75	lymphocyte antigen 75 [Source:HGNC Symbol;Acc:HGNC:6729]	protein coding	-3.31	2.87	14.65	0.00	0.00	
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	protein coding	3.30	5.31	60.96	0.00	0.00	
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	3.30	9.12	44.09	0.00	0.00	
ENSG00000067992	PDK3	pyruvate dehydrogenase kinase 3 [Source:HGNC Symbol;Acc:HGNC:8811]	protein coding	-3.30	3.30	18.71	0.00	0.00	
ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	protein coding	3.29	6.42	67.98	0.00	0.00	
ENSG00000154556	SORBS2	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24098]	protein coding	-3.29	2.81	12.78	0.00	0.00	
ENSG00000202306			misc RNA	-3.28	7.52	35.49	0.00	0.00	
ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	protein coding	3.28	4.15	34.18	0.00	0.00	
ENSG00000261635		tropomyosin 3 (TPM3) pseudogene	processed pseudo-gene	-3.28	2.86	12.78	0.00	0.00	
ENSG00000223529	EEF1A1P8	eukaryotic translation elongation factor 1 alpha 1 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:3203]	processed pseudo-gene	-3.27	3.08	11.93	0.00	0.01	

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ENSG00000173930	SLCO4C1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	protein coding	-3.27	3.23	18.98	0.00	0.00	
ENSG00000239742	RN7SL672P	RNA, 7SL, cytoplasmic 672, pseudogene [Source:HGNC Symbol;Acc:HGNC:46688]	misc RNA	-3.27	7.98	13.01	0.00	0.00	
ENSG00000187867	PALM3	paralemmin 3 [Source:HGNC Symbol;Acc:HGNC:33274]	protein coding	-3.27	2.29	7.40	0.01	0.04	
ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]	protein coding	3.26	3.63	23.64	0.00	0.00	
ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]	protein coding	3.25	2.31	7.14	0.01	0.04	
ENSG00000220884	MESTP1	mesoderm specific transcript pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:29660]	processed pseudogene	-3.25	3.18	14.88	0.00	0.00	
ENSG00000270123	VTRNA2-1	vault RNA 2-1 [Source:HGNC Symbol;Acc:HGNC:37054]	vaultRNA	-3.25	3.18	14.89	0.00	0.00	
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	protein coding	3.25	6.39	69.99	0.00	0.00	
ENSG00000148219	ASTN2	astrotactin 2 [Source:HGNC Symbol;Acc:HGNC:17021]	protein coding	-3.25	2.24	8.17	0.00	0.03	
ENSG00000144820	ADGRG7	adhesion G protein-coupled receptor G7 [Source:HGNC Symbol;Acc:HGNC:19241]	protein coding	-3.25	2.21	7.92	0.00	0.03	
ENSG00000145248	SLC10A4	solute carrier family 10 member 4 [Source:HGNC Symbol;Acc:HGNC:22980]	protein coding	-3.23	2.81	14.27	0.00	0.00	
ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	protein coding	3.22	2.86	14.35	0.00	0.00	
ENSG00000204520	MICA	MHC class I polypeptide-related sequence A [Source:HGNC Symbol;Acc:HGNC:7090]	protein coding	3.22	3.23	14.51	0.00	0.00	
ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	protein coding	3.22	5.94	67.26	0.00	0.00	
ENSG00000189362	NEMP2	nuclear envelope integral membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:33700]	protein coding	-3.20	3.51	24.00	0.00	0.00	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	3.20	7.30	73.42	0.00	0.00	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	3.19	6.81	70.30	0.00	0.00	
ENSG00000170631	ZNF16	zinc finger protein 16 [Source:HGNC Symbol;Acc:HGNC:12947]	protein coding	3.19	3.30	16.43	0.00	0.00	
ENSG00000200436			misc RNA	-3.18	3.96	25.02	0.00	0.00	
ENSG00000222451	RN7SKP143	RNA, 7SK small nuclear pseudogene 143 [Source:HGNC Symbol;Acc:HGNC:45867]	misc RNA	-3.17	2.19	7.78	0.01	0.03	
ENSG00000253616		novel transcript	antisense	3.17	4.86	29.10	0.00	0.00	
ENSG00000145014	TMEM44	transmembrane protein 44 [Source:HGNC Symbol;Acc:HGNC:25120]	protein coding	3.17	2.21	7.20	0.01	0.04	
ENSG00000199223			misc RNA	-3.16	3.15	16.10	0.00	0.00	
ENSG00000254827	SLC22A18AS	solute carrier family 22 member 18 antisense [Source:HGNC Symbol;Acc:HGNC:10965]	protein coding	-3.16	2.77	12.69	0.00	0.00	

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ENSG00000207207			misc RNA	-3.15	2.70	11.04	0.00	0.01	
ENSG00000200834			misc RNA	-3.14	2.14	6.93	0.01	0.04	
ENSG00000201955	RNY3P1	RNA, Ro-associated Y3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42477]	misc RNA	-3.14	2.14	6.93	0.01	0.04	
ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	protein coding	3.14	4.96	45.56	0.00	0.00	
ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]	protein coding	3.14	3.22	16.34	0.00	0.00	
ENSG00000235169	SMIM1	small integral membrane protein 1 (Vel blood group) [Source:HGNC Symbol;Acc:HGNC:44204]	protein coding	-3.14	2.17	7.41	0.01	0.04	
ENSG00000260668		emopamil binding protein-like (EBPL) pseudogene	processed pseudo-gene	-3.14	2.17	7.41	0.01	0.04	
ENSG00000199285			misc RNA	-3.14	2.17	7.41	0.01	0.04	
ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	protein coding	-3.14	4.13	33.77	0.00	0.00	
ENSG00000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	transcribed unprocessed pseudo-gene	3.13	3.78	25.11	0.00	0.00	
ENSG00000199368	RNU6-1084P	RNA, U6 small nuclear 1084, pseudogene [Source:HGNC Symbol;Acc:HGNC:48047]	snRNA	-3.13	3.35	14.31	0.00	0.00	
ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	protein coding	3.12	6.06	50.03	0.00	0.00	
ENSG0000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]	protein coding	3.12	5.55	31.59	0.00	0.00	
ENSG00000114019	AMOTL2	angiotonin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	protein coding	3.11	8.08	59.14	0.00	0.00	
ENSG00000145908	ZNF300	zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13091]	protein coding	3.09	3.14	16.68	0.00	0.00	
ENSG00000128683	GAD1	glutamate decarboxylase 1 [Source:HGNC Symbol;Acc:HGNC:4092]	protein coding	3.09	2.14	6.66	0.01	0.05	
ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]	protein coding	3.08	2.14	6.66	0.01	0.05	
ENSG00000134871	COL4A2	collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203]	protein coding	-3.08	3.27	11.66	0.00	0.01	
ENSG00000168026	TTC21A	tetratricopeptide repeat domain 21A [Source:HGNC Symbol;Acc:HGNC:30761]	protein coding	3.08	3.15	10.37	0.00	0.01	
ENSG00000231764	DLX6-AS1	DLX6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:37151]	antisense	-3.07	2.12	6.99	0.01	0.04	
ENSG00000261701	HPR	haptoglobin-related protein [Source:HGNC Symbol;Acc:HGNC:5156]	protein coding	-3.07	2.69	11.61	0.00	0.01	
ENSG0000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]	protein coding	-3.07	5.39	57.41	0.00	0.00	

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ENSG00000178467	P4HTM	prolyl 4-hydroxylase, transmembrane [Source:HGNC Symbol;Acc:HGNC:28858]	protein coding	3.06	2.14	7.05	0.01	0.04	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	3.06	4.92	44.61	0.00	0.00	
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	misc RNA	-3.06	5.77	62.75	0.00	0.00	
ENSG00000217241	CBX3P9	chromobox 3 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:42881]	processed pseudogene	-3.05	2.71	11.36	0.00	0.01	
ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily 1 member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	protein coding	3.05	3.93	29.15	0.00	0.00	
ENSG00000128567	PODXL	podocalyxin like [Source:HGNC Symbol;Acc:HGNC:9171]	protein coding	3.04	2.70	11.81	0.00	0.01	
ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]	protein coding	3.04	4.96	42.32	0.00	0.00	
ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]	snRNA	-3.04	6.39	14.42	0.00	0.00	
ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	protein coding	3.03	6.62	62.72	0.00	0.00	
ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	protein coding	3.03	8.29	48.97	0.00	0.00	
ENSG00000171130	ATP6V0E2	ATPase H+ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:HGNC:21723]	protein coding	-3.02	2.64	10.56	0.00	0.01	
ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]	protein coding	3.02	4.88	38.89	0.00	0.00	
ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	protein coding	3.02	6.54	63.28	0.00	0.00	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	3.02	5.16	36.20	0.00	0.00	
ENSG00000243495	GMFBP1	glia maturation factor beta pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:38654]	processed pseudogene	-3.02	2.10	6.66	0.01	0.05	
ENSG00000204682	CASC10	cancer susceptibility 10 [Source:HGNC Symbol;Acc:HGNC:31448]	protein coding	-3.02	2.10	6.66	0.01	0.05	
ENSG00000175643	RMI2	RecQ mediated genome instability 2 [Source:HGNC Symbol;Acc:HGNC:28349]	protein coding	-3.02	2.10	6.66	0.01	0.05	
ENSG00000222231	RNU2-54P	RNA, U2 small nuclear 54, pseudogene [Source:HGNC Symbol;Acc:HGNC:48547]	snRNA	-3.01	3.00	12.55	0.00	0.00	
ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	protein coding	3.01	6.76	68.30	0.00	0.00	
ENSG00000108622	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:5345]	protein coding	3.00	3.47	18.78	0.00	0.00	
ENSG00000262001	DLGAP1-AS2	DLGAP1 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:28146]	antisense	3.00	2.66	9.99	0.00	0.01	

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ENSG00000234743	EIF5AP4	eukaryotic translation initiation factor 5A pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:31442]	processed pseudo-gene	-3.00	2.61	9.42	0.00	0.02	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	2.99	6.09	55.45	0.00	0.00	
ENSG00000200651			misc RNA	-2.98	2.99	12.52	0.00	0.00	
ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	protein coding	2.96	5.10	41.24	0.00	0.00	
ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	protein coding	2.95	3.42	18.10	0.00	0.00	
ENSG00000199731	RNU6-1079P	RNA, U6 small nuclear 1079, pseudogene [Source:HGNC Symbol;Acc:HGNC:48042]	snRNA	-2.95	4.44	19.97	0.00	0.00	
ENSG00000207204	RNU6-393P	RNA, U6 small nuclear 393, pseudogene [Source:HGNC Symbol;Acc:HGNC:47356]	snRNA	-2.94	5.31	29.67	0.00	0.00	
ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	protein coding	2.94	4.85	37.77	0.00	0.00	
ENSG00000185950	IRS2	insulin receptor substrate 2 [Source:HGNC Symbol;Acc:HGNC:6126]	protein coding	2.92	4.54	28.20	0.00	0.00	
ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	protein coding	2.92	8.86	40.98	0.00	0.00	
ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.91	6.34	52.31	0.00	0.00	
ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	protein coding	2.91	4.97	37.35	0.00	0.00	
ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]	protein coding	2.91	5.68	56.13	0.00	0.00	
ENSG00000239224	RN7SL546P	RNA, 7SL, cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]	misc RNA	-2.91	9.43	25.61	0.00	0.00	
ENSG00000207142			misc RNA	-2.90	2.91	10.67	0.00	0.01	
ENSG00000215424	MCM3AP-AS1	MCM3AP antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:16417]	antisense	-2.90	2.57	9.84	0.00	0.01	
ENSG00000188873	RPL10AP2	ribosomal protein L10a pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:31081]	processed pseudo-gene	-2.90	2.96	11.78	0.00	0.01	
ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	protein coding	-2.89	6.77	52.15	0.00	0.00	
ENSG00000259697		novel transcript	lincRNA	-2.89	6.02	26.94	0.00	0.00	
ENSG00000178301	AQP11	aquaporin 11 [Source:HGNC Symbol;Acc:HGNC:19940]	protein coding	-2.89	2.93	11.92	0.00	0.01	
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	snRNA	-2.88	7.22	38.42	0.00	0.00	
ENSG00000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	protein coding	2.88	4.62	34.92	0.00	0.00	
ENSG00000134184	GSTM1	glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:HGNC:4632]	protein coding	-2.88	3.27	14.69	0.00	0.00	

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ENSG00000139292	LGR5	leucine rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:HGNC:4504]	protein coding	-2.88	3.28	18.08	0.00	0.00	
ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	protein coding	2.88	4.58	25.60	0.00	0.00	
ENSG00000104381	GDAP1	ganglioside induced differentiation associated protein 1 [Source:HGNC Symbol;Acc:HGNC:15968]	protein coding	2.88	3.03	13.56	0.00	0.00	
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	protein coding	-2.88	6.36	63.70	0.00	0.00	
ENSG00000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]	misc RNA	-2.87	7.51	34.10	0.00	0.00	
ENSG00000224094	RPS24P8	ribosomal protein S24 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:37016]	processed pseudogene	-2.87	2.96	13.73	0.00	0.00	
ENSG00000148841	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]	protein coding	2.87	3.29	17.20	0.00	0.00	
ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]	protein coding	2.87	3.97	27.05	0.00	0.00	
ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	protein coding	2.86	3.02	12.46	0.00	0.00	
ENSG00000197647	ZNF433	zinc finger protein 433 [Source:HGNC Symbol;Acc:HGNC:20811]	protein coding	2.86	2.58	9.25	0.00	0.02	
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	protein coding	2.86	2.58	9.25	0.00	0.02	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	protein coding	2.86	5.78	46.93	0.00	0.00	
ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	protein coding	2.86	2.65	8.34	0.00	0.02	
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	protein coding	2.85	3.77	22.86	0.00	0.00	
ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]	snRNA	-2.84	6.69	29.49	0.00	0.00	
ENSG00000132793	LPIN3	lipin 3 [Source:HGNC Symbol;Acc:HGNC:14451]	protein coding	2.84	2.61	9.85	0.00	0.01	
ENSG00000102409	BEX4	brain expressed X-linked 4 [Source:HGNC Symbol;Acc:HGNC:25475]	protein coding	2.84	2.61	9.85	0.00	0.01	
ENSG00000256937	KRT17P8	keratin 17 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:50726]	processed pseudogene	-2.84	3.51	20.65	0.00	0.00	
ENSG00000079112	CDH17	cadherin 17 [Source:HGNC Symbol;Acc:HGNC:1756]	protein coding	-2.84	3.96	17.01	0.00	0.00	
ENSG00000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]	protein coding	2.83	2.99	13.95	0.00	0.00	
ENSG00000107742	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2 [Source:HGNC Symbol;Acc:HGNC:13564]	protein coding	-2.83	3.49	20.04	0.00	0.00	
ENSG00000261227		novel transcript	lncRNA	2.83	2.54	8.36	0.00	0.02	

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ENSG00000248208	WDR45P1	WD repeat domain 45 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:52406]	processed pseudo-gene	2.82	3.57	19.11	0.00	0.00	
ENSG00000132677	RHBG	Rh family B glycoprotein (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:14572]	protein coding	-2.82	2.55	9.44	0.00	0.02	
ENSG00000264112		novel transcript	lincRNA	-2.80	2.53	9.11	0.00	0.02	
ENSG00000199377	RNU5F-1	RNA, U5F small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10216]	snRNA	-2.79	3.49	18.46	0.00	0.00	
ENSG00000223478			antisense	-2.79	3.97	20.44	0.00	0.00	
ENSG00000163536	SERPINI1	serpin family I member 1 [Source:HGNC Symbol;Acc:HGNC:8943]	protein coding	-2.78	2.95	11.09	0.00	0.01	
ENSG00000133983	COX16	cytochrome c oxidase assembly factor COX16 [Source:HGNC Symbol;Acc:HGNC:20213]	protein coding	-2.78	2.51	8.87	0.00	0.02	
ENSG00000186076		phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene	processed pseudo-gene	-2.77	2.53	7.91	0.00	0.03	
ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	transcribed unprocessed pseudo-gene	2.77	3.89	23.44	0.00	0.00	
ENSG00000183807	FAM162B	family with sequence similarity 162 member B [Source:HGNC Symbol;Acc:HGNC:21549]	protein coding	-2.77	2.88	11.77	0.00	0.01	
ENSG00000137880	GCHFR	GTP cyclohydrolase I feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]	protein coding	-2.76	2.89	12.53	0.00	0.00	
ENSG00000207115	RNU6-364P	RNA, U6 small nuclear 364, pseudogene [Source:HGNC Symbol;Acc:HGNC:47327]	snRNA	-2.76	3.61	15.77	0.00	0.00	
ENSG00000143643	TTC13	tetratricopeptide repeat domain 13 [Source:HGNC Symbol;Acc:HGNC:26204]	protein coding	-2.76	3.19	15.52	0.00	0.00	
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	protein coding	-2.76	5.06	40.53	0.00	0.00	
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	protein coding	2.76	4.93	33.97	0.00	0.00	
ENSG00000252982	RN7SKP234	RNA, 7SK small nuclear pseudogene 234 [Source:HGNC Symbol;Acc:HGNC:45958]	misc RNA	-2.76	2.43	6.85	0.01	0.04	
ENSG00000215154			transcribed unprocessed pseudo-gene	2.75	2.56	8.70	0.00	0.02	
ENSG00000204859	ZBTB48	zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:HGNC:4930]	protein coding	2.75	4.48	32.22	0.00	0.00	
ENSG00000180745	CLRN3	clarin 3 [Source:HGNC Symbol;Acc:HGNC:20795]	protein coding	-2.75	4.51	22.55	0.00	0.00	
ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	protein coding	2.75	4.00	24.81	0.00	0.00	

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ENSG00000200314				misc RNA	-2.75	2.47	7.98	0.00	0.03		
ENSG0000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]	Symbol	protein coding	-2.75	3.17	14.42	0.00	0.00		
ENSG00000207261	RNU6-738P	RNA, U6 small nuclear 738, pseudogene [Source:HGNC Symbol;Acc:HGNC:47701]		snRNA	-2.74	5.18	23.91	0.00	0.00		
ENSG00000153237	CCDC148	coiled-coil domain containing 148 [Source:HGNC Symbol;Acc:HGNC:25191]		protein coding	2.74	2.55	9.03	0.00	0.02		
ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]		protein coding	2.73	8.11	41.20	0.00	0.00		
ENSG00000226715	LINC01709	long intergenic non-protein coding RNA 1709 [Source:HGNC Symbol;Acc:HGNC:52497]		lincRNA	-2.73	2.50	8.69	0.00	0.02		
ENSG00000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]		protein coding	-2.73	4.80	38.01	0.00	0.00		
ENSG00000130429	ARPC1B	actin related protein 2/3 complex subunit 1B [Source:HGNC Symbol;Acc:HGNC:704]		protein coding	-2.73	3.43	16.53	0.00	0.00		
ENSG00000180089	TMEM86B	transmembrane protein 86B [Source:HGNC Symbol;Acc:HGNC:28448]		protein coding	-2.73	3.13	12.82	0.00	0.00		
ENSG00000136997	MYC	MYC proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7553]		protein coding	2.73	7.22	56.10	0.00	0.00		
ENSG00000202395	RN7SKP1	RNA, 7SK small nuclear pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42619]		misc RNA	-2.73	6.02	39.88	0.00	0.00		
ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]		protein coding	-2.72	3.82	23.83	0.00	0.00		
ENSG00000205835	GMNC	geminin coiled-coil domain containing [Source:HGNC Symbol;Acc:HGNC:40049]		protein coding	-2.72	2.47	8.18	0.00	0.03		
ENSG00000212409	RNY4P18	RNA, Ro-associated Y4 pseudogene 18 [Source:HGNC Symbol;Acc:HGNC:34068]		misc RNA	-2.72	2.43	6.96	0.01	0.04		
ENSG00000272476		novel transcript, antisense to SEC63		antisense	2.72	2.48	7.81	0.01	0.03		
ENSG00000188921	HACD4	3-hydroxyacyl-CoA dehydratase 4 [Source:HGNC Symbol;Acc:HGNC:20920]		protein coding	-2.71	2.88	10.62	0.00	0.01		
ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]		protein coding	2.71	5.62	44.56	0.00	0.00		
ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]		protein coding	2.71	6.18	50.19	0.00	0.00		
ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]		protein coding	2.71	4.83	33.97	0.00	0.00		
ENSG00000196743	GM2A	GM2 ganglioside activator [Source:HGNC Symbol;Acc:HGNC:4367]		protein coding	-2.71	5.35	39.17	0.00	0.00		
ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]		protein coding	2.71	8.45	38.83	0.00	0.00		
ENSG00000239748	RN7SL795P	RNA, 7SL, cytoplasmic 795, pseudogene [Source:HGNC Symbol;Acc:HGNC:46811]		misc RNA	-2.71	10.99	13.35	0.00	0.00		
ENSG00000197283	SYNGAP1	synaptic Ras GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:11497]		protein coding	2.70	2.85	10.44	0.00	0.01		

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ENSG0000010810	FYN	FYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4037]	protein coding	-2.70	2.85	10.70	0.00	0.01	
ENSG0000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	protein coding	2.70	5.06	28.05	0.00	0.00	
ENSG0000234337		tropomyosin 1 (alpha) (TPM1) pseudogene	processed pseudo-gene	-2.69	2.45	8.06	0.00	0.03	
ENSG0000111319	SCNN1A	sodium channel epithelial 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:10599]	protein coding	-2.69	2.48	7.40	0.01	0.04	
ENSG0000129173	E2F8	E2F transcription factor 8 [Source:HGNC Symbol;Acc:HGNC:24727]	protein coding	-2.69	3.42	15.37	0.00	0.00	
ENSG0000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	2.69	6.25	47.60	0.00	0.00	
ENSG0000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	protein coding	2.69	2.47	8.34	0.00	0.02	
ENSG0000201031			misc RNA	-2.68	3.12	11.72	0.00	0.01	
ENSG0000138315	OIT3	oncoprotein induced transcript 3 [Source:HGNC Symbol;Acc:HGNC:29953]	protein coding	-2.68	3.15	14.13	0.00	0.00	
ENSG0000165121		kinesin family member 27 (KIF27) pseudogene	transcribed unprocessed pseudo-gene	2.68	2.47	8.02	0.00	0.03	
ENSG0000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]	protein coding	2.68	6.01	52.46	0.00	0.00	
ENSG0000168811	IL12A	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]	protein coding	2.68	3.17	10.90	0.00	0.01	
ENSG0000214362	RPS3AP36	ribosomal protein S3a pseudogene 36 [Source:HGNC Symbol;Acc:HGNC:35596]	processed pseudo-gene	-2.68	2.46	8.31	0.00	0.02	
ENSG0000214121	PRDX1P1	peroxiredoxin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:11711]	processed pseudo-gene	-2.67	4.09	26.62	0.00	0.00	
ENSG0000206625	RNU6-1	RNA, U6 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10227]	snRNA	-2.67	2.46	7.72	0.01	0.03	
ENSG0000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]	protein coding	2.67	3.41	14.10	0.00	0.00	
ENSG0000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	protein coding	2.66	6.06	49.95	0.00	0.00	
ENSG0000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]	protein coding	2.66	3.46	14.65	0.00	0.00	
ENSG0000115137	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27 [Source:HGNC Symbol;Acc:HGNC:30290]	protein coding	2.66	2.84	10.52	0.00	0.01	
ENSG0000164695	CHMP4C	charged multivesicular body protein 4C [Source:HGNC Symbol;Acc:HGNC:30599]	protein coding	2.66	3.66	17.87	0.00	0.00	

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ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	protein coding	2.66	6.35	51.25	0.00	0.00	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.66	6.29	54.75	0.00	0.00	
ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	lincRNA	-2.65	4.63	25.85	0.00	0.00	
ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	protein coding	2.65	4.94	36.97	0.00	0.00	
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	protein coding	2.65	6.85	48.63	0.00	0.00	
ENSG00000106105	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:4162]	protein coding	2.65	8.28	36.72	0.00	0.00	
ENSG00000223117	RN7SKP296	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:46020]	misc RNA	-2.64	4.16	20.13	0.00	0.00	
ENSG00000273297			lincRNA	-2.64	2.77	8.54	0.00	0.02	
ENSG00000147202	DIAPH2	diaphanous related formin 2 [Source:HGNC Symbol;Acc:HGNC:2877]	protein coding	2.64	2.49	8.13	0.00	0.03	
ENSG00000198056	PRIM1	DNA primase subunit 1 [Source:HGNC Symbol;Acc:HGNC:9369]	protein coding	-2.64	3.75	21.82	0.00	0.00	
ENSG00000096968	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]	protein coding	2.64	5.04	32.79	0.00	0.00	
ENSG00000141542	RAB40B	RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:18284]	protein coding	-2.64	2.44	7.98	0.00	0.03	
ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	protein coding	2.64	5.09	33.39	0.00	0.00	
ENSG00000200737			misc RNA	-2.64	3.11	12.18	0.00	0.01	
ENSG00000235776		ribosomal protein L7a (RPL7A) pseudogene	processed pseudogene	-2.64	2.80	9.78	0.00	0.01	
ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]	protein coding	-2.64	6.79	59.46	0.00	0.00	
ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]	protein coding	2.64	5.03	34.48	0.00	0.00	
ENSG00000168386	FILIP1L	filamin A interacting protein 1 like [Source:HGNC Symbol;Acc:HGNC:24589]	protein coding	2.64	5.40	40.77	0.00	0.00	
ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	protein coding	2.64	4.34	24.88	0.00	0.00	
ENSG00000090020	SLC9A1	solute carrier family 9 member A1 [Source:HGNC Symbol;Acc:HGNC:11071]	protein coding	2.62	4.61	31.89	0.00	0.00	
ENSG00000146233	CYP39A1	cytochrome P450 family 39 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:17449]	protein coding	-2.62	2.83	9.67	0.00	0.01	
ENSG00000199218	RN7SKP184	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45908]	misc RNA	-2.61	4.76	18.46	0.00	0.00	
ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	protein coding	2.61	7.07	48.17	0.00	0.00	

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ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]	protein coding	-2.61	6.38	46.65	0.00	0.00	
ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	protein coding	2.60	6.40	50.20	0.00	0.00	
ENSG00000206888	RNU6-48P	RNA, U6 small nuclear 48, pseudogene [Source:HGNC Symbol;Acc:HGNC:34292]	snRNA	-2.60	3.07	11.89	0.00	0.01	
ENSG00000256043	CTSO	cathepsin O [Source:HGNC Symbol;Acc:HGNC:2542]	protein coding	-2.60	3.33	15.95	0.00	0.00	
ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	protein coding	2.60	6.63	50.63	0.00	0.00	
ENSG00000138101	DTNB	dystrobrevin beta [Source:HGNC Symbol;Acc:HGNC:3058]	protein coding	-2.59	2.43	7.13	0.01	0.04	
ENSG00000170099	SERPINA6	serpin family A member 6 [Source:HGNC Symbol;Acc:HGNC:1540]	protein coding	-2.59	4.99	35.81	0.00	0.00	
ENSG00000199812	RNU6-428P	RNA, U6 small nuclear 428, pseudogene [Source:HGNC Symbol;Acc:HGNC:47391]	snRNA	-2.59	5.67	34.91	0.00	0.00	
ENSG00000221988	PPT2	palmitoyl-protein thioesterase 2 [Source:HGNC Symbol;Acc:HGNC:9326]	protein coding	-2.59	3.09	13.18	0.00	0.00	
ENSG00000119703	ZC2HC1C	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]	protein coding	2.59	2.79	9.23	0.00	0.02	
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	protein coding	2.59	5.73	46.73	0.00	0.00	
ENSG00000239467		glutamate rich 2 [Source:NCBI gene;Acc:285141]	lncRNA	2.59	3.12	12.75	0.00	0.00	
ENSG00000169087	HSPBAP1	HSPB1 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16389]	protein coding	2.58	4.23	25.17	0.00	0.00	
ENSG00000185133	INPP5J	inositol polyphosphate-5-phosphatase J [Source:HGNC Symbol;Acc:HGNC:8956]	protein coding	2.58	2.78	6.80	0.01	0.05	
ENSG00000161888	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]	protein coding	-2.58	5.22	40.01	0.00	0.00	
ENSG00000244062		acyl-CoA synthetase long-chain family member 3 (ACSL3) pseudogene	processed pseudogene	-2.57	2.81	8.47	0.00	0.02	
ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	protein coding	2.57	6.71	55.09	0.00	0.00	
ENSG00000200379	RN7SKP45	RNA, 7SK small nuclear pseudogene 45 [Source:HGNC Symbol;Acc:HGNC:45769]	misc RNA	-2.56	7.63	29.79	0.00	0.00	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	2.56	6.42	35.08	0.00	0.00	
ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	protein coding	2.55	6.57	51.84	0.00	0.00	
ENSG0000010219	DYRK4	dual specificity tyrosine phosphorylation regulated kinase 4 [Source:HGNC Symbol;Acc:HGNC:3095]	protein coding	2.55	3.42	14.38	0.00	0.00	
ENSG00000156639	ZFAND3	zinc finger AN1-type containing 3 [Source:HGNC Symbol;Acc:HGNC:18019]	protein coding	2.55	5.11	36.17	0.00	0.00	
ENSG00000132718	SYT11	synaptotagmin 11 [Source:HGNC Symbol;Acc:HGNC:19239]	protein coding	2.55	2.81	9.85	0.00	0.01	

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ENSG00000176473	WDR25	WD repeat domain 25 [Source:HGNC Symbol;Acc:HGNC:21064]	protein coding	2.55	3.37	15.25	0.00	0.00	
ENSG00000140105	WARS	tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:12729]	protein coding	2.55	7.15	52.03	0.00	0.00	
ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	protein coding	2.55	5.34	41.32	0.00	0.00	
ENSG00000251136			lincRNA	2.54	3.93	20.96	0.00	0.00	
ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]	protein coding	-2.54	3.31	14.20	0.00	0.00	
ENSG00000240306	RN7SL100P	RNA, 7SL, cytoplasmic 100, pseudogene [Source:HGNC Symbol;Acc:HGNC:46116]	misc RNA	-2.54	6.02	26.75	0.00	0.00	
ENSG00000174684	B4GAT1	beta-1,4-glucuronidyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]	protein coding	-2.54	6.84	36.52	0.00	0.00	
ENSG00000099812	MISP	mitotic spindle positioning [Source:HGNC Symbol;Acc:HGNC:27000]	protein coding	2.54	3.05	10.59	0.00	0.01	
ENSG00000240997	RN7SL183P	RNA, 7SL, cytoplasmic 183, pseudogene [Source:HGNC Symbol;Acc:HGNC:46199]	misc RNA	-2.54	6.23	22.74	0.00	0.00	
ENSG00000197619	ZNF615	zinc finger protein 615 [Source:HGNC Symbol;Acc:HGNC:24740]	protein coding	2.54	3.04	8.86	0.00	0.02	
ENSG00000272113			misc RNA	-2.53	2.71	8.21	0.00	0.03	
ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	protein coding	2.53	3.79	12.94	0.00	0.00	
ENSG00000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	protein coding	2.52	4.62	30.38	0.00	0.00	
ENSG00000244722	RPSAP29	ribosomal protein SA pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:36680]	processed pseudogene	-2.52	2.72	8.86	0.00	0.02	
ENSG00000108187	PBLD	phenazine biosynthesis like protein domain containing [Source:HGNC Symbol;Acc:HGNC:23301]	protein coding	-2.52	2.79	8.02	0.00	0.03	
ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]	protein coding	2.52	4.12	23.86	0.00	0.00	
ENSG00000232332		ADP-ribosylation factor-like 5 (ARL5) pseudogene	processed pseudogene	-2.51	3.03	12.50	0.00	0.00	
ENSG00000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]	protein coding	2.51	3.91	19.85	0.00	0.00	
ENSG00000233952	FTLP15	ferritin light chain pseudogene 15 [Source:HGNC Symbol;Acc:HGNC:37965]	processed pseudogene	-2.51	3.55	10.15	0.00	0.01	
ENSG00000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]	protein coding	-2.50	5.26	40.76	0.00	0.00	
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	protein coding	2.50	4.55	28.75	0.00	0.00	
ENSG00000279673	TEC		TEC	-2.49	3.95	19.62	0.00	0.00	
ENSG00000170502	NUDT9	nudix hydrolase 9 [Source:HGNC Symbol;Acc:HGNC:8056]	protein coding	2.49	4.12	18.00	0.00	0.00	

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ENSG00000133739	LRRCC1	leucine rich repeat and coiled-coil centrosomal protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]	protein coding	-2.49	2.77	7.79	0.01	0.03	
ENSG0000064225	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]	protein coding	-2.48	4.35	20.60	0.00	0.00	
ENSG00000165861	ZFYVE1	zinc finger FYVE-type containing 1 [Source:HGNC Symbol;Acc:HGNC:13180]	protein coding	2.48	3.49	15.83	0.00	0.00	
ENSG00000260822		novel transcript, overlapping to PDK3	sense overlapping	-2.48	3.45	14.38	0.00	0.00	
ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]	misc RNA	-2.48	6.11	25.22	0.00	0.00	
ENSG00000134215	VAV3	vav guanine nucleotide exchange factor 3 [Source:HGNC Symbol;Acc:HGNC:12659]	protein coding	-2.48	2.99	10.70	0.00	0.01	
ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	protein coding	2.47	3.49	16.23	0.00	0.00	
ENSG00000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	protein coding	2.47	3.99	22.26	0.00	0.00	
ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]	protein coding	2.47	5.73	44.23	0.00	0.00	
ENSG0000079689	SCGN	secretagogin, EF-hand calcium binding protein [Source:HGNC Symbol;Acc:HGNC:16941]	protein coding	-2.47	5.40	35.12	0.00	0.00	
ENSG00000080618	CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]	protein coding	-2.47	6.27	50.81	0.00	0.00	
ENSG00000178297	TMPRSS9	transmembrane serine protease 9 [Source:HGNC Symbol;Acc:HGNC:30079]	protein coding	2.47	3.04	11.32	0.00	0.01	
ENSG00000247796			antisense	-2.46	2.70	8.31	0.00	0.02	
ENSG00000124508	BTN2A2	butyrophilin subfamily 2 member A2 [Source:HGNC Symbol;Acc:HGNC:1137]	protein coding	2.46	4.66	29.99	0.00	0.00	
ENSG00000276588	RN7SL322P	RNA, 7SL, cytoplasmic 322, pseudogene [Source:HGNC Symbol;Acc:HGNC:46338]	misc RNA	-2.46	6.07	48.39	0.00	0.00	
ENSG00000221869	CEBDP	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	2.46	6.57	32.32	0.00	0.00	
ENSG00000118733	OLFM3	olfactomedin 3 [Source:HGNC Symbol;Acc:HGNC:17990]	protein coding	-2.45	2.68	8.15	0.00	0.03	
ENSG00000127324	TSPAN8	tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:11855]	protein coding	-2.45	4.15	20.15	0.00	0.00	
ENSG00000239731	RN7SL825P	RNA, 7SL, cytoplasmic 825, pseudogene [Source:HGNC Symbol;Acc:HGNC:46841]	misc RNA	-2.45	3.76	8.11	0.00	0.03	
ENSG00000222438	RNU6-1077P	RNA, U6 small nuclear 1077, pseudogene [Source:HGNC Symbol;Acc:HGNC:48040]	snRNA	-2.45	3.16	9.01	0.00	0.02	
ENSG00000202357			misc RNA	-2.45	6.81	24.23	0.00	0.00	
ENSG00000206954	RNU6-1201P	RNA, U6 small nuclear 1201, pseudogene [Source:HGNC Symbol;Acc:HGNC:48164]	snRNA	-2.44	4.90	34.10	0.00	0.00	
ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]	protein coding	-2.44	5.25	37.76	0.00	0.00	

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ENSG00000142675	CNKS1R1	connector enhancer of kinase suppressor of Ras 1 [Source:HGNC Symbol;Acc:HGNC:19700]	protein coding	2.44	3.47	12.38	0.00	0.00	
ENSG00000176046	NUPR1	nuclear protein 1, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29990]	protein coding	2.44	4.10	14.74	0.00	0.00	
ENSG00000162687	KCNT2	potassium sodium-activated channel subfamily T member 2 [Source:HGNC Symbol;Acc:HGNC:18866]	protein coding	2.44	4.59	18.90	0.00	0.00	
ENSG00000127957	PMS2P3	PMS1 homolog 2, mismatch repair system component pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:9128]	transcribed unprocessed pseudogene	2.44	2.69	8.54	0.00	0.02	
ENSG00000229474	PATL2	PAT1 homolog 2 [Source:HGNC Symbol;Acc:HGNC:33630]	protein coding	2.43	2.69	8.17	0.00	0.03	
ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	protein coding	2.43	3.79	18.03	0.00	0.00	
ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	protein coding	2.43	4.24	16.93	0.00	0.00	
ENSG00000083817	ZNF416	zinc finger protein 416 [Source:HGNC Symbol;Acc:HGNC:20645]	protein coding	2.43	3.82	19.76	0.00	0.00	
ENSG00000104044	OCA2	OCA2 melanosomal transmembrane protein [Source:HGNC Symbol;Acc:HGNC:8101]	protein coding	-2.42	2.68	8.41	0.00	0.02	
ENSG00000240767	RN7SL288P	RNA, 7SL, cytoplasmic 288, pseudogene [Source:HGNC Symbol;Acc:HGNC:46304]	misc RNA	-2.42	6.09	19.58	0.00	0.00	
ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	protein coding	-2.42	4.48	24.73	0.00	0.00	
ENSG00000162433	AK4	adenylate kinase 4 [Source:HGNC Symbol;Acc:HGNC:363]	protein coding	-2.42	5.86	48.52	0.00	0.00	
ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]	protein coding	2.41	3.85	15.20	0.00	0.00	
ENSG00000244256	RN7SL130P	RNA, 7SL, cytoplasmic 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:46146]	misc RNA	-2.41	4.64	11.47	0.00	0.01	
ENSG00000107864	CPEB3	cytoplasmic polyadenylation element binding protein 3 [Source:HGNC Symbol;Acc:HGNC:21746]	protein coding	2.41	3.18	10.63	0.00	0.01	
ENSG00000200855	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-2.41	2.61	6.66	0.01	0.05	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-2.41	4.01	17.45	0.00	0.00	
ENSG00000201196			misc RNA	-2.41	3.13	7.77	0.01	0.03	
ENSG00000241360	PDXP	pyridoxal phosphatase [Source:HGNC Symbol;Acc:HGNC:30259]	protein coding	-2.40	3.39	14.20	0.00	0.00	
ENSG00000201901	RN7SKP48	RNA, 7SK small nuclear pseudogene 48 [Source:HGNC Symbol;Acc:HGNC:45772]	misc RNA	2.40	7.51	7.56	0.01	0.03	
ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]	protein coding	2.40	4.33	20.67	0.00	0.00	
ENSG00000114771	AADAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc:HGNC:17]	protein coding	-2.40	4.89	26.23	0.00	0.00	

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ENSG0000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	2.39	4.54	18.99	0.00	0.00	
ENSG0000148356	LRSAM1	leucine rich repeat and sterile alpha motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25135]	protein coding	2.39	4.75	28.24	0.00	0.00	
ENSG0000127920	GNG11	G protein subunit gamma 11 [Source:HGNC Symbol;Acc:HGNC:4403]	protein coding	-2.39	2.93	9.54	0.00	0.02	
ENSG0000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	protein coding	2.39	6.24	28.80	0.00	0.00	
ENSG0000073150	PANX2	pannexin 2 [Source:HGNC Symbol;Acc:HGNC:8600]	protein coding	-2.39	3.20	11.64	0.00	0.01	
ENSG0000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]	protein coding	-2.39	4.45	26.76	0.00	0.00	
ENSG0000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	protein coding	2.38	6.97	39.64	0.00	0.00	
ENSG0000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	protein coding	2.38	5.38	38.16	0.00	0.00	
ENSG0000158156	XKR8	XK related 8 [Source:HGNC Symbol;Acc:HGNC:25508]	protein coding	-2.38	2.90	8.68	0.00	0.02	
ENSG0000088356	PDRG1	p53 and DNA damage regulated 1 [Source:HGNC Symbol;Acc:HGNC:16119]	protein coding	2.38	6.41	46.96	0.00	0.00	
ENSG0000186205	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:HGNC:26189]	protein coding	-2.38	5.61	37.77	0.00	0.00	
ENSG0000199883	RN7SKP90	RNA, 7SK small nuclear pseudogene 90 [Source:HGNC Symbol;Acc:HGNC:45814]	misc RNA	-2.37	7.48	26.33	0.00	0.00	
ENSG0000233593	LINC02609	long intergenic non-protein coding RNA 2609 [Source:HGNC Symbol;Acc:HGNC:27140]	processed transcript	-2.37	3.25	8.24	0.00	0.03	
ENSG0000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	protein coding	2.37	4.58	27.22	0.00	0.00	
ENSG0000235142	LINC02532	long intergenic non-protein coding RNA 2532 [Source:HGNC Symbol;Acc:HGNC:53549]	lincRNA	-2.37	3.84	15.53	0.00	0.00	
ENSG0000112818	MEP1A	meprin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]	protein coding	-2.37	4.90	29.35	0.00	0.00	
ENSG0000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	protein coding	2.37	3.64	10.58	0.00	0.01	
ENSG0000201201	RN7SKP118	RNA, 7SK small nuclear pseudogene 118 [Source:HGNC Symbol;Acc:HGNC:45842]	misc RNA	-2.36	9.26	16.17	0.00	0.00	
ENSG0000238561	RNU6ATAC28P	RNA, U6atac small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:46927]	snRNA	-2.36	2.94	9.36	0.00	0.02	
ENSG0000109320	NFKB1	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]	protein coding	2.36	6.61	41.72	0.00	0.00	
ENSG0000250144		eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) pseudogene	processed pseudogene	-2.36	3.16	12.04	0.00	0.01	
ENSG0000198346	ZNF813	zinc finger protein 813 [Source:HGNC Symbol;Acc:HGNC:33257]	protein coding	-2.36	2.63	7.89	0.00	0.03	

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ENSG00000189298	ZKSCAN3	zinc finger with KRAB and SCAN domains 3 [Source:HGNC Symbol;Acc:HGNC:13853]	protein coding	-2.36	3.71	14.33	0.00	0.00	
ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]	protein coding	2.35	5.04	31.50	0.00	0.00	
ENSG00000128617	OPN1SW	opsin 1, short wave sensitive [Source:HGNC Symbol;Acc:HGNC:1012]	protein coding	-2.35	2.92	9.65	0.00	0.01	
ENSG00000128294	TPST2	tyrosylprotein sulfotransferase 2 [Source:HGNC Symbol;Acc:HGNC:12021]	protein coding	-2.35	3.17	10.93	0.00	0.01	
ENSG00000176273	SLC35G1	solute carrier family 35 member G1 [Source:HGNC Symbol;Acc:HGNC:26607]	protein coding	-2.34	4.84	25.66	0.00	0.00	
ENSG00000122861	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:HGNC:9052]	protein coding	-2.34	3.15	11.38	0.00	0.01	
ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	protein coding	2.34	5.18	35.21	0.00	0.00	
ENSG00000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]	protein coding	-2.34	6.21	40.65	0.00	0.00	
ENSG00000104957	CCDC130	coiled-coil domain containing 130 [Source:HGNC Symbol;Acc:HGNC:28118]	protein coding	2.34	5.51	38.27	0.00	0.00	
ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]	snRNA	-2.34	4.97	15.59	0.00	0.00	
ENSG00000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]	protein coding	2.33	3.59	14.68	0.00	0.00	
ENSG00000181218	HIST3H2A	histone cluster 3 H2A [Source:HGNC Symbol;Acc:HGNC:20507]	protein coding	2.33	4.04	20.08	0.00	0.00	
ENSG00000266469 0.04		novel transcript, antisense to MED1	FBXL20	antisense	2.33	2.66	7.32	0.01	
ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	protein coding	2.33	6.18	43.90	0.00	0.00	
ENSG00000164308	ERAP2	endoplasmic reticulum amino peptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]	protein coding	2.33	2.95	9.95	0.00	0.01	
ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]	protein coding	2.33	6.53	39.71	0.00	0.00	
ENSG00000198075	SULT1C4	sulfotransferase family 1C member 4 [Source:HGNC Symbol;Acc:HGNC:11457]	protein coding	2.32	5.12	30.96	0.00	0.00	
ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]	protein coding	2.32	4.80	21.86	0.00	0.00	
ENSG00000163581	SLC2A2	solute carrier family 2 member 2 [Source:HGNC Symbol;Acc:HGNC:11006]	protein coding	-2.32	4.92	28.27	0.00	0.00	
ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]	protein coding	2.32	9.67	18.34	0.00	0.00	
ENSG00000189114	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3 [Source:HGNC Symbol;Acc:HGNC:20914]	protein coding	2.32	2.86	6.72	0.01	0.05	
ENSG00000207507	RNU6-9	RNA, U6 small nuclear 9 [Source:HGNC Symbol;Acc:HGNC:34269]	snRNA	-2.32	2.60	6.71	0.01	0.05	
ENSG00000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	protein coding	2.32	6.19	39.03	0.00	0.00	

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ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	protein coding	2.32	5.75	41.01	0.00	0.00	
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	protein coding	2.32	3.81	17.20	0.00	0.00	
ENSG00000163435	ELF3	E74 like ETS transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:3318]	protein coding	2.32	6.52	42.31	0.00	0.00	
ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]	protein coding	-2.32	5.49	35.66	0.00	0.00	
ENSG00000169564	PCBP1	poly(rC) binding protein 1 [Source:HGNC Symbol;Acc:HGNC:8647]	protein coding	2.32	4.28	14.68	0.00	0.00	
ENSG0000006459	KDM7A	lysine demethylase 7A [Source:HGNC Symbol;Acc:HGNC:22224]	protein coding	2.31	4.31	22.77	0.00	0.00	
ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta [Source:HGNC Symbol;Acc:HGNC:9310]	protein coding	2.31	4.18	20.25	0.00	0.00	
ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	protein coding	2.31	3.70	16.92	0.00	0.00	
ENSG00000231789	PIK3CD-AS2	PIK3CD antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:51334]	antisense	-2.31	2.89	8.98	0.00	0.02	
ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	protein coding	2.31	5.66	24.12	0.00	0.00	
ENSG00000256338	RPL41P2	ribosomal protein L41 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:10357]	processed pseudogene	-2.30	2.58	6.69	0.01	0.05	
ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	protein coding	2.30	3.61	13.14	0.00	0.00	
ENSG00000157087	ATP2B2	ATPase plasma membrane Ca2+ transporting 2 [Source:HGNC Symbol;Acc:HGNC:815]	protein coding	-2.30	2.91	9.20	0.00	0.02	
ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	protein coding	2.30	4.33	19.69	0.00	0.00	
ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]	protein coding	-2.30	3.52	15.02	0.00	0.00	
ENSG00000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]	protein coding	2.30	6.93	43.41	0.00	0.00	
ENSG00000239211	RN7SL563P	RNA, 7SL, cytoplasmic 563, pseudogene [Source:HGNC Symbol;Acc:HGNC:46579]	misc RNA	-2.29	4.27	11.29	0.00	0.01	
ENSG00000138050	THUMPD2	THUMP domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14890]	protein coding	2.29	4.66	22.99	0.00	0.00	
ENSG00000164237	CMBL	carboxymethylenebutenolidase homolog [Source:HGNC Symbol;Acc:HGNC:25090]	protein coding	-2.29	4.51	17.92	0.00	0.00	
ENSG00000238516			misc RNA	-2.29	2.60	7.34	0.01	0.04	
ENSG00000090238	YPEL3	yippee like 3 [Source:HGNC Symbol;Acc:HGNC:18327]	protein coding	-2.29	2.60	7.34	0.01	0.04	
ENSG00000200243	RN7SKP79	RNA, 7SK small nuclear pseudogene 79 [Source:HGNC Symbol;Acc:HGNC:45803]	misc RNA	-2.29	10.72	11.11	0.00	0.01	
ENSG00000162614	NEXN	nexilin F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:29557]	protein coding	2.29	2.87	7.92	0.00	0.03	

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ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	protein coding	2.28	8.15	22.37	0.00	0.00	
ENSG00000055483	USP36	ubiquitin specific peptidase 36 [Source:HGNC Symbol;Acc:HGNC:20062]	protein coding	2.28	6.15	33.33	0.00	0.00	
ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	protein coding	2.28	7.08	44.56	0.00	0.00	
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	misc RNA	-2.28	4.82	18.08	0.00	0.00	
ENSG00000276653	RN7SL856P	RNA, 7SL, cytoplasmic 856, pseudogene [Source:HGNC Symbol;Acc:HGNC:46872]	misc RNA	-2.28	4.26	10.84	0.00	0.01	
ENSG00000198624	CCDC69	coiled-coil domain containing 69 [Source:HGNC Symbol;Acc:HGNC:24487]	protein coding	-2.27	5.50	38.65	0.00	0.00	
ENSG00000138308	PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]	protein coding	-2.27	4.34	22.62	0.00	0.00	
ENSG00000164850	GPER1	G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:4485]	protein coding	-2.27	4.42	22.43	0.00	0.00	
ENSG00000201684	RN7SKP239	RNA, 7SK small nuclear pseudogene 239 [Source:HGNC Symbol;Acc:HGNC:45963]	misc RNA	-2.26	4.28	13.74	0.00	0.00	
ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	protein coding	2.26	7.96	29.42	0.00	0.00	
ENSG00000185361	TNFAIP8L1	TNF alpha induced protein 8 like 1 [Source:HGNC Symbol;Acc:HGNC:28279]	protein coding	-2.26	3.11	9.83	0.00	0.01	
ENSG00000011132	APBA3	amyloid beta precursor protein binding family A member 3 [Source:HGNC Symbol;Acc:HGNC:580]	protein coding	2.26	4.76	26.66	0.00	0.00	
ENSG00000245205	EEF1A1P4	eukaryotic translation elongation factor 1 alpha 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:3199]	processed pseudogene	-2.26	3.64	15.21	0.00	0.00	
ENSG00000198718	TOGARAM1	TOG array regulator of axonemal microtubules 1 [Source:HGNC Symbol;Acc:HGNC:19959]	protein coding	2.26	4.44	22.80	0.00	0.00	
ENSG00000150782	IL18	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	protein coding	2.26	5.67	38.98	0.00	0.00	
ENSG00000234272	RPL30P2	ribosomal protein L30 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:35642]	processed pseudogene	-2.25	3.01	7.53	0.01	0.03	
ENSG00000137135	ARHGEF39	Rho guanine nucleotide exchange factor 39 [Source:HGNC Symbol;Acc:HGNC:25909]	protein coding	-2.25	4.32	21.51	0.00	0.00	
ENSG00000100100	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24942]	protein coding	2.25	3.07	7.43	0.01	0.04	
ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	protein coding	2.25	4.13	18.29	0.00	0.00	
ENSG00000206651			misc RNA	-2.24	2.86	6.68	0.01	0.05	
ENSG00000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]	protein coding	2.24	8.58	29.40	0.00	0.00	
ENSG00000178607	ERN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:HGNC:3449]	protein coding	2.23	5.22	33.65	0.00	0.00	

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ENSG00000171224	FAM241B	family with sequence similarity 241 member B [Source:HGNC Symbol;Acc:HGNC:23519]	protein coding	2.23	2.61	6.82	0.01	0.05	
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	protein coding	2.23	3.68	14.28	0.00	0.00	
ENSG00000092068	SLC7A8	solute carrier family 7 member 8 [Source:HGNC Symbol;Acc:HGNC:11066]	protein coding	-2.23	3.64	12.03	0.00	0.01	
ENSG00000200153	RNU6-23P	RNA, U6 small nuclear 23, pseudogene [Source:HGNC Symbol;Acc:HGNC:34267]	snRNA	-2.23	4.51	21.26	0.00	0.00	
ENSG00000158062	UBXN11	UBX domain protein 11 [Source:HGNC Symbol;Acc:HGNC:30600]	protein coding	2.23	2.89	7.98	0.00	0.03	
ENSG00000183298	RPSAP19	ribosomal protein SA pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:36508]	processed pseudogene	-2.23	3.44	12.85	0.00	0.00	
ENSG00000166997	CNPY4	canopy FGF signaling regulator 4 [Source:HGNC Symbol;Acc:HGNC:28631]	protein coding	-2.23	3.50	12.09	0.00	0.01	
ENSG00000102934	PLLP	plasmolipin [Source:HGNC Symbol;Acc:HGNC:18553]	protein coding	-2.23	4.01	19.72	0.00	0.00	
ENSG00000150893	FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:25396]	protein coding	-2.23	3.77	16.13	0.00	0.00	
ENSG00000102781	KATNAL1	katanin catalytic subunit A1 like 1 [Source:HGNC Symbol;Acc:HGNC:28361]	protein coding	-2.23	4.39	22.60	0.00	0.00	
ENSG00000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	protein coding	2.23	4.22	15.82	0.00	0.00	
ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	protein coding	-2.23	4.31	22.21	0.00	0.00	
ENSG00000201021	RNU6-743P	RNA, U6 small nuclear 743, pseudogene [Source:HGNC Symbol;Acc:HGNC:47706]	snRNA	-2.22	7.89	20.23	0.00	0.00	
ENSG00000232368	FTLP2	ferritin light chain pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:4001]	processed pseudogene	-2.22	7.82	22.08	0.00	0.00	
ENSG00000268916	CSAG3	CSAG family member 3 [Source:HGNC Symbol;Acc:HGNC:26237]	protein coding	2.22	3.67	15.34	0.00	0.00	
ENSG00000135617	PRADC1	protease associated domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16047]	protein coding	-2.22	4.70	26.13	0.00	0.00	
ENSG00000237187	NR2F1-AS1	NR2F1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48622]	antisense	2.22	3.44	9.38	0.00	0.02	
ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]	protein coding	2.22	3.58	12.62	0.00	0.00	
ENSG00000123595	RAB9A	RAB9A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9792]	protein coding	2.22	5.63	37.45	0.00	0.00	
ENSG00000187134	AKR1C1	aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384]	protein coding	-2.21	7.73	32.49	0.00	0.00	
ENSG00000228462	RPS19P7	ribosomal protein S19 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:35550]	processed pseudogene	-2.21	2.84	8.34	0.00	0.02	

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ENSG00000111266	DUSP16	dual specificity phosphatase 16 [Source:HGNC Symbol;Acc:HGNC:17909]	protein coding	2.21	5.43	33.13	0.00	0.00	
ENSG00000131797	CLUHP3	clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447]	transcribed unprocessed pseudo-gene	2.21	4.03	15.89	0.00	0.00	
ENSG00000226608	FTLP3	ferritin light chain pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:4000]	processed pseudo-gene	-2.21	7.51	22.33	0.00	0.00	
ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]	protein coding	-2.20	4.90	28.85	0.00	0.00	
ENSG00000116005	PCYOX1	prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:HGNC:20588]	protein coding	-2.20	6.07	34.21	0.00	0.00	
ENSG00000080823	MOK	MOK protein kinase [Source:HGNC Symbol;Acc:HGNC:9833]	protein coding	2.20	3.29	11.60	0.00	0.01	
ENSG00000099617	EFNA2	ephrin A2 [Source:HGNC Symbol;Acc:HGNC:3222]	protein coding	-2.20	3.07	10.35	0.00	0.01	
ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	lincRNA	-2.20	3.86	17.56	0.00	0.00	
ENSG00000185467	KPNA7	karyopherin subunit alpha 7 [Source:HGNC Symbol;Acc:HGNC:21839]	protein coding	2.20	3.33	11.38	0.00	0.01	
ENSG00000230897	RPS18P12	ribosomal protein S18 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:35967]	processed pseudo-gene	-2.19	3.59	7.73	0.01	0.03	
ENSG00000136936	XPA	XPA, DNA damage recognition and repair factor [Source:HGNC Symbol;Acc:HGNC:12814]	protein coding	2.19	4.82	23.74	0.00	0.00	
ENSG00000163586	FABP1	fatty acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:3555]	protein coding	-2.19	3.70	9.44	0.00	0.02	
ENSG00000151632	AKR1C2	aldo-keto reductase family 1 member C2 [Source:HGNC Symbol;Acc:HGNC:385]	protein coding	-2.19	7.74	31.71	0.00	0.00	
ENSG00000130827	PLXNA3	plexin A3 [Source:HGNC Symbol;Acc:HGNC:9101]	protein coding	2.19	3.74	8.62	0.00	0.02	
ENSG00000164946	FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:HGNC:23399]	protein coding	-2.19	3.27	9.54	0.00	0.02	
ENSG00000108576	SLC6A4	solute carrier family 6 member 4 [Source:HGNC Symbol;Acc:HGNC:11050]	protein coding	-2.19	3.72	14.59	0.00	0.00	
ENSG00000205871	RPS3AP47	ribosomal protein S3a pseudogene 47 [Source:HGNC Symbol;Acc:HGNC:36744]	processed pseudo-gene	-2.18	3.20	6.90	0.01	0.04	
ENSG00000169562	GJB1	gap junction protein beta 1 [Source:HGNC Symbol;Acc:HGNC:4283]	protein coding	-2.18	4.74	22.64	0.00	0.00	
ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]	protein coding	2.18	3.05	9.18	0.00	0.02	
ENSG00000258890	CEP95	centrosomal protein 95 [Source:HGNC Symbol;Acc:HGNC:25141]	protein coding	2.18	5.22	27.81	0.00	0.00	

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ENSG00000199248	RNU6-28P	RNA, U6 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:34272]			snRNA	-2.18	3.78	10.30	0.00	0.01	
ENSG00000200830	RN7SKP134	RNA, 7SK small nuclear pseudogene 134 [Source:HGNC Symbol;Acc:HGNC:45858]			misc RNA	-2.18	5.01	16.42	0.00	0.00	
ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]			misc RNA	-2.18	7.39	18.64	0.00	0.00	
ENSG00000179818	PCBP1-AS1	PCBP1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:42948]			processed transcript	2.18	4.01	18.59	0.00	0.00	
ENSG00000115641	FHL2	four and a half LIM domains 2 [Source:HGNC Symbol;Acc:HGNC:3703]			protein coding	2.17	4.47	17.95	0.00	0.00	
ENSG00000081051	AFP	alpha fetoprotein [Source:HGNC Symbol;Acc:HGNC:317]			protein coding	-2.17	10.28	14.61	0.00	0.00	
ENSG00000238444	RNU6-893P	RNA, U6 small nuclear 893, pseudogene [Source:HGNC Symbol;Acc:HGNC:47856]			snRNA	-2.17	3.96	10.36	0.00	0.01	
ENSG00000117450	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:9352]			protein coding	-2.17	8.68	24.53	0.00	0.00	
ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]			protein coding	2.17	6.78	41.68	0.00	0.00	
ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]			protein coding	2.17	5.50	26.22	0.00	0.00	
ENSG00000241420	RN7SL505P	RNA, 7SL, cytoplasmic 505, pseudogene [Source:HGNC Symbol;Acc:HGNC:46521]			misc RNA	-2.17	4.60	10.11	0.00	0.01	
ENSG00000115252	PDE1A	phosphodiesterase 1A [Source:HGNC Symbol;Acc:HGNC:8774]			protein coding	-2.16	2.80	7.87	0.01	0.03	
ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]			protein coding	-2.16	4.07	18.31	0.00	0.00	
ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]			protein coding	2.16	6.40	33.19	0.00	0.00	
ENSG00000273559	CWC25	CWC25 spliceosome associated protein homolog [Source:HGNC Symbol;Acc:HGNC:25989]			protein coding	2.15	3.99	13.93	0.00	0.00	
ENSG00000259078	PTBP1P	polypyrimidine tract binding protein 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:20030]			processed pseudogene	2.15	3.26	10.69	0.00	0.01	
ENSG00000144852	NR1I2	nuclear receptor subfamily 1 group I member 2 [Source:HGNC Symbol;Acc:HGNC:7968]			protein coding	-2.15	3.43	11.88	0.00	0.01	
ENSG00000110400	NECTIN1	nectin cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:9706]			protein coding	-2.15	3.96	16.57	0.00	0.00	
ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]			protein coding	2.15	5.79	37.02	0.00	0.00	
ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]			protein coding	-2.15	7.08	38.69	0.00	0.00	
ENSG00000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]			protein coding	2.15	3.90	15.24	0.00	0.00	
ENSG00000200091	RN7SKP163	RNA, 7SK small nuclear pseudogene 163 [Source:HGNC Symbol;Acc:HGNC:45887]			misc RNA	-2.15	6.26	22.74	0.00	0.00	

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ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]	protein coding	2.15	4.39	21.02	0.00	0.00	
ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]	protein coding	2.15	7.10	38.92	0.00	0.00	
ENSG00000167981	ZNF597	zinc finger protein 597 [Source:HGNC Symbol;Acc:HGNC:26573]	protein coding	2.15	4.70	18.82	0.00	0.00	
ENSG00000085377	PREP	prolyl endopeptidase [Source:HGNC Symbol;Acc:HGNC:9358]	protein coding	2.15	5.77	33.37	0.00	0.00	
ENSG00000204344	STK19	serine/threonine kinase 19 [Source:HGNC Symbol;Acc:HGNC:11398]	protein coding	2.15	2.79	7.53	0.01	0.03	
ENSG00000122644	ARL4A	ADP ribosylation factor like GTPase 4A [Source:HGNC Symbol;Acc:HGNC:695]	protein coding	2.14	5.67	33.16	0.00	0.00	
ENSG00000167081	PBX3	PBX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:8634]	protein coding	-2.14	3.81	15.43	0.00	0.00	
ENSG00000200309			misc RNA	-2.14	5.06	12.10	0.00	0.01	
ENSG00000253846	PCDHGA10	protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]	protein coding	-2.14	2.80	7.12	0.01	0.04	
ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]	protein coding	-2.14	6.10	30.61	0.00	0.00	
ENSG00000158246	TENT5B	terminal nucleotidyltransferase 5B [Source:HGNC Symbol;Acc:HGNC:28273]	protein coding	2.14	3.39	9.22	0.00	0.02	
ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	protein coding	-2.14	5.94	29.33	0.00	0.00	
ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	protein coding	2.13	4.03	14.57	0.00	0.00	
ENSG00000197355	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1 [Source:HGNC Symbol;Acc:HGNC:28082]	protein coding	2.13	4.65	15.27	0.00	0.00	
ENSG00000052802	MSMO1	methylsterol monooxygenase 1 [Source:HGNC Symbol;Acc:HGNC:10545]	protein coding	-2.13	8.76	24.98	0.00	0.00	
ENSG00000137185	ZSCAN9	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]	protein coding	2.13	3.42	12.37	0.00	0.00	
ENSG00000156140	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	protein coding	-2.13	2.79	7.09	0.01	0.04	
ENSG00000105967	TFEC	transcription factor EC [Source:HGNC Symbol;Acc:HGNC:11754]	protein coding	-2.13	2.79	7.08	0.01	0.04	
ENSG00000102996	MMP15	matrix metallopeptidase 15 [Source:HGNC Symbol;Acc:HGNC:7161]	protein coding	-2.13	5.36	25.57	0.00	0.00	
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	protein coding	2.12	5.91	31.01	0.00	0.00	
ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]	protein coding	2.12	5.48	25.38	0.00	0.00	
ENSG00000280434		novel transcript, sense overlapping PARVB	sense overlapping	-2.12	6.51	19.96	0.00	0.00	
ENSG00000172732	MUS81	MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:29814]	protein coding	2.11	5.33	31.42	0.00	0.00	

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ENSG00000241399	CD302	CD302 molecule [Source:HGNC Symbol;Acc:HGNC:30843]	Symbol	Sym-	protein coding	-2.11	3.55	13.47	0.00	0.00	
ENSG00000202304	RNU6-1130P	RNA, U6 small nuclear 1130, pseudogene [Source:HGNC Symbol;Acc:HGNC:48093]			snRNA	-2.11	2.78	7.52	0.01	0.03	
ENSG00000123095	BHLHE41	basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]			protein coding	2.11	3.38	7.73	0.01	0.03	
ENSG00000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]			protein coding	-2.11	7.81	29.47	0.00	0.00	
ENSG00000105321	CCDC9	coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:HGNC:24560]			protein coding	2.11	3.87	15.52	0.00	0.00	
ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]			protein coding	2.11	3.36	10.80	0.00	0.01	
ENSG00000134548	SPX	spexin hormone [Source:HGNC Symbol;Acc:HGNC:28139]			protein coding	2.11	4.20	14.09	0.00	0.00	
ENSG00000065911	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase [Source:HGNC Symbol;Acc:HGNC:7434]			protein coding	2.11	5.77	29.80	0.00	0.00	
ENSG00000199691	RN7SKP173	RNA, 7SK small nuclear pseudogene 173 [Source:HGNC Symbol;Acc:HGNC:45897]			misc RNA	-2.11	7.04	17.22	0.00	0.00	
ENSG00000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]			protein coding	-2.11	4.14	13.71	0.00	0.00	
ENSG00000065057	NTHL1	nth like DNA glycosylase 1 [Source:HGNC Symbol;Acc:HGNC:8028]			protein coding	-2.11	3.88	12.92	0.00	0.00	
ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]			protein coding	2.11	4.46	20.35	0.00	0.00	
ENSG00000136068	FLNB	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]			protein coding	2.11	7.99	30.00	0.00	0.00	
ENSG00000149573	MPZL2	myelin protein zero like 2 [Source:HGNC Symbol;Acc:HGNC:3496]			protein coding	-2.10	6.16	34.31	0.00	0.00	
ENSG00000096092	TMEM14A	transmembrane protein 14A [Source:HGNC Symbol;Acc:HGNC:21076]			protein coding	-2.10	6.15	36.48	0.00	0.00	
ENSG00000104312	RIPK2	receptor interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:10020]			protein coding	2.10	4.43	20.72	0.00	0.00	
ENSG00000113407	TARS	threonyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:11572]			protein coding	2.09	7.80	30.05	0.00	0.00	
ENSG00000165113	GKAP1	G kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:17496]			protein coding	2.09	3.32	8.61	0.00	0.02	
ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]			protein coding	-2.09	5.35	29.48	0.00	0.00	
ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]			protein coding	-2.09	7.01	37.19	0.00	0.00	
ENSG00000137970	RPL7P9	ribosomal protein L7 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:37028]			processed pseudogene	-2.09	3.49	10.69	0.00	0.01	
ENSG00000175984	DENN2C	DENN domain containing 2C [Source:HGNC Symbol;Acc:HGNC:24748]			protein coding	-2.09	3.00	8.95	0.00	0.02	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]	protein coding	-2.09	5.39	32.08	0.00	0.00	
ENSG00000112394	SLC16A10	solute carrier family 16 member 10 [Source:HGNC Symbol;Acc:HGNC:17027]	protein coding	-2.09	4.81	25.51	0.00	0.00	
ENSG00000229644	NAMPTP1	nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633]	processed pseudo-gene	2.09	3.46	10.50	0.00	0.01	
ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]	protein coding	2.09	7.30	36.22	0.00	0.00	
ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	protein coding	2.08	5.60	32.30	0.00	0.00	
ENSG00000165655	ZNF503	zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23589]	protein coding	2.08	3.22	10.41	0.00	0.01	
ENSG00000155254	MARVELD1	MARVEL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28674]	protein coding	-2.08	2.97	8.05	0.00	0.03	
ENSG00000205903	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:13843]	protein coding	2.08	4.98	26.10	0.00	0.00	
ENSG00000237945	LINC00649	long intergenic non-protein coding RNA 649 [Source:HGNC Symbol;Acc:HGNC:44305]	antisense	-2.08	2.98	8.56	0.00	0.02	
ENSG0000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]	protein coding	2.08	7.45	26.60	0.00	0.00	
ENSG00000101417	PXMP4	peroxisomal membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15920]	protein coding	-2.07	4.68	22.21	0.00	0.00	
ENSG00000252652			misc RNA	-2.07	4.77	16.51	0.00	0.00	
ENSG00000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]	protein coding	-2.07	6.48	32.87	0.00	0.00	
ENSG00000125319	C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:HGNC:28460]	protein coding	2.07	4.50	21.60	0.00	0.00	
ENSG00000111666	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:17852]	protein coding	-2.07	6.83	33.89	0.00	0.00	
ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]	protein coding	-2.07	5.29	30.05	0.00	0.00	
ENSG00000163482	STK36	serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC:17209]	protein coding	2.07	3.48	11.09	0.00	0.01	
ENSG00000175066	GK5	glycerol kinase 5 [Source:HGNC Symbol;Acc:HGNC:28635]	protein coding	-2.07	3.78	15.48	0.00	0.00	
ENSG00000104880	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]	protein coding	2.07	3.92	13.35	0.00	0.00	
ENSG00000141384	TAF4B	TATA-box binding protein associated factor 4b [Source:HGNC Symbol;Acc:HGNC:11538]	protein coding	2.06	2.74	6.74	0.01	0.05	
ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]	protein coding	-2.06	5.07	23.30	0.00	0.00	
ENSG00000169752	NRG4	neuregulin 4 [Source:HGNC Symbol;Acc:HGNC:29862]	protein coding	-2.06	3.17	9.58	0.00	0.01	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000214019		RNA-binding region (RNP1, RRM) containing 2 (RNPC2) pseudogene	processed pseudo-gene	2.06	3.16	9.35	0.00	0.02	
ENSG00000173702	MUC13	mucin 13, cell surface associated [Source:HGNC Symbol;Acc:HGNC:7511]	protein coding	-2.06	2.99	7.75	0.01	0.03	
ENSG00000121350	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1 [Source:HGNC Symbol;Acc:HGNC:26162]	protein coding	2.06	4.29	17.52	0.00	0.00	
ENSG00000262519	TXNP4	thioredoxin pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:49484]	processed pseudo-gene	-2.06	2.98	8.09	0.00	0.03	
ENSG00000080819	CPOX	coproporphyrinogen oxidase [Source:HGNC Symbol;Acc:HGNC:2321]	protein coding	-2.05	5.33	20.80	0.00	0.00	
ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]	protein coding	2.05	8.20	27.29	0.00	0.00	
ENSG00000051596	THOC3	THO complex 3 [Source:HGNC Symbol;Acc:HGNC:19072]	protein coding	-2.05	3.73	11.86	0.00	0.01	
ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	protein coding	2.05	3.27	8.98	0.00	0.02	
ENSG00000133624	ZNF767P	zinc finger family member 767, pseudogene [Source:HGNC Symbol;Acc:HGNC:21884]	transcribed unprocessed pseudo-gene	2.05	3.53	9.31	0.00	0.02	
ENSG00000278898	TEC	TEC	TEC	-2.05	3.09	6.88	0.01	0.04	
ENSG00000165030	NFIL3	nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:7787]	protein coding	2.05	5.16	25.99	0.00	0.00	
ENSG00000183963	SMTN	smoothelin [Source:HGNC Symbol;Acc:HGNC:11126]	protein coding	2.05	6.64	34.82	0.00	0.00	
ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5 [Source:HGNC Symbol;Acc:HGNC:3367]	protein coding	-2.05	6.91	39.06	0.00	0.00	
ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]	protein coding	2.05	6.37	32.31	0.00	0.00	
ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]	protein coding	-2.05	6.97	33.66	0.00	0.00	
ENSG00000163032	VSNL1	visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]	protein coding	-2.05	5.48	32.16	0.00	0.00	
ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]	protein coding	2.05	5.20	28.41	0.00	0.00	
ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]	protein coding	-2.04	4.18	18.49	0.00	0.00	
ENSG00000102048	ASB9	ankyrin repeat and SOCS box containing 9 [Source:HGNC Symbol;Acc:HGNC:17184]	protein coding	-2.04	4.70	22.89	0.00	0.00	
ENSG00000201654	RNU6-7	RNA, U6 small nuclear 7 [Source:HGNC Symbol;Acc:HGNC:34284]	snRNA	-2.04	4.63	11.30	0.00	0.01	
ENSG00000102125	TAZ	tafazzin [Source:HGNC Symbol;Acc:HGNC:11577]	protein coding	-2.04	2.73	6.80	0.01	0.05	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000243955	GSTA1	glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc:HGNC:4626]	protein coding	-2.04	5.74	25.68	0.00	0.00	
ENSG00000222974	RN7SKP228	RNA, 7SK small nuclear pseudogene 228 [Source:HGNC Symbol;Acc:HGNC:45952]	misc RNA	-2.03	8.03	16.00	0.00	0.00	
ENSG00000099953	MMP11	matrix metallopeptidase 11 [Source:HGNC Symbol;Acc:HGNC:7157]	protein coding	-2.03	3.33	10.87	0.00	0.01	
ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]	protein coding	2.03	5.82	32.28	0.00	0.00	
ENSG00000013588	GPRC5A	G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836]	protein coding	2.03	3.63	12.23	0.00	0.00	
ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]	protein coding	2.03	4.89	20.83	0.00	0.00	
ENSG00000179965	ZNF771	zinc finger protein 771 [Source:HGNC Symbol;Acc:HGNC:29653]	protein coding	-2.03	3.33	9.74	0.00	0.01	
ENSG00000223229	RN7SKP270	RNA, 7SK small nuclear pseudogene 270 [Source:HGNC Symbol;Acc:HGNC:45994]	misc RNA	-2.03	4.68	19.04	0.00	0.00	
ENSG00000248049	UBA6-AS1	UBA6 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49083]	antisense	2.03	3.18	9.57	0.00	0.01	
ENSG00000137501	SYTL2	synaptotagmin like 2 [Source:HGNC Symbol;Acc:HGNC:15585]	protein coding	2.03	3.18	9.57	0.00	0.01	
ENSG00000181004	BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:HGNC:26648]	protein coding	2.03	2.98	8.42	0.00	0.02	
ENSG00000152689	RASGRP3	RAS guanyl releasing protein 3 [Source:HGNC Symbol;Acc:HGNC:14545]	protein coding	2.02	3.13	8.66	0.00	0.02	
ENSG00000126775	ATG14	autophagy related 14 [Source:HGNC Symbol;Acc:HGNC:19962]	protein coding	2.02	5.61	25.73	0.00	0.00	
ENSG00000183840	GPR39	G protein-coupled receptor 39 [Source:HGNC Symbol;Acc:HGNC:4496]	protein coding	-2.02	2.94	7.87	0.01	0.03	
ENSG00000125247	TMTC4	transmembrane and tetratricopeptide repeat containing 4 [Source:HGNC Symbol;Acc:HGNC:25904]	protein coding	-2.02	4.35	18.61	0.00	0.00	
ENSG00000178209	PLEC	plectin [Source:HGNC Symbol;Acc:HGNC:9069]	protein coding	2.02	6.49	30.97	0.00	0.00	
ENSG00000117480	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:HGNC:3553]	protein coding	2.01	3.13	8.81	0.00	0.02	
ENSG00000243333	RN7SL174P	RNA, 7SL, cytoplasmic 174, pseudogene [Source:HGNC Symbol;Acc:HGNC:46190]	misc RNA	-2.01	3.43	8.53	0.00	0.02	
ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]	protein coding	-2.01	4.55	14.86	0.00	0.00	
ENSG00000101199	ARFGAP1	ADP ribosylation factor GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:15852]	protein coding	2.00	6.47	28.96	0.00	0.00	
ENSG00000151743	AMN1	antagonist of mitotic exit network 1 homolog [Source:HGNC Symbol;Acc:HGNC:27281]	protein coding	-2.00	3.10	6.99	0.01	0.04	
ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic 128, pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]	misc RNA	-2.00	8.54	8.50	0.00	0.02	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene	misc RNA	-2.00	7.07	20.44	0.00	0.00	

Table 12: Genes differentially expressed at 40h PI compared to pre-treatment (RNA-Seq, Huh7, ER). Sorted by descending absolute \log_2 fold change (Day 40 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP6-001	3	ENSG00000200436			-2.00	-2.00
RNA-SEQ-HUHTP6-001	3	ENSG00000240997	RN7SL183P	RNA, 7SL, cytoplasmic 183, pseudogene [Source:HGNC Symbol;Acc:HGNC:46199]	-0.77	-0.77
RNA-SEQ-HUHTP6-001	3	ENSG00000265486	RN7SL518P	RNA, 7SL, cytoplasmic 518, pseudogene [Source:HGNC Symbol;Acc:HGNC:46534]	-0.97	-0.97
RNA-SEQ-HUHTP6-002	3	ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	-2.31	-2.31
RNA-SEQ-HUHTP6-002	3	ENSG00000183298	RPSAP19	ribosomal protein SA pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:36508]	-0.99	-0.99
RNA-SEQ-HUHTP6-002	3	ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]	-1.20	-1.20
RNA-SEQ-HUHTP6-003	2	ENSG00000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	-0.41	-0.41
RNA-SEQ-HUHTP6-003	2	ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]	-0.01	-0.01
RNA-SEQ-HUHTP6-004	2	ENSG00000201644			-1.30	-1.30
RNA-SEQ-HUHTP6-004	2	ENSG00000198088	NUP62CL	nucleoporin 62 C-terminal like [Source:HGNC Symbol;Acc:HGNC:25960]	-0.03	-0.03
RNA-SEQ-HUHTP6-005	3	ENSG00000261227		novel transcript	-1.57	-1.57
RNA-SEQ-HUHTP6-005	3	ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]	-3.41	-3.41
RNA-SEQ-HUHTP6-005	3	ENSG00000107957	SH3PXD2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:HGNC:23664]	-0.76	-0.76
RNA-SEQ-HUHTP6-006	4	ENSG00000002330	BAD	BCL2 associated agonist of cell death [Source:HGNC Symbol;Acc:HGNC:936]	-0.55	-0.55
RNA-SEQ-HUHTP6-006	4	ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	-0.99	-0.99
RNA-SEQ-HUHTP6-006	4	ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene [Source:HGNC Symbol;Acc:HGNC:46470]	-0.55	-0.55
RNA-SEQ-HUHTP6-006	4	ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	-0.43	-0.43
RNA-SEQ-HUHTP6-007	2	ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	0.13	0.13
RNA-SEQ-HUHTP6-007	2	ENSG00000199469	RNU1-62P	RNA, U1 small nuclear 62, pseudogene [Source:HGNC Symbol;Acc:HGNC:48404]	0.12	0.12
RNA-SEQ-HUHTP6-008	3	ENSG00000179111	HES7	hes family bHLH transcription factor 7 [Source:HGNC Symbol;Acc:HGNC:15977]	-1.61	-1.61
RNA-SEQ-HUHTP6-008	3	ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	-2.30	-2.30
RNA-SEQ-HUHTP6-008	3	ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	-0.68	-0.68
RNA-SEQ-HUHTP6-009	10	ENSG00000279123		novel transcript	2.89	2.89
RNA-SEQ-HUHTP6-009	10	ENSG00000122644	ARL4A	ADP ribosylation factor like GTPase 4A [Source:HGNC Symbol;Acc:HGNC:695]	0.28	0.28
RNA-SEQ-HUHTP6-009	10	ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	0.21	0.21
RNA-SEQ-HUHTP6-009	10	ENSG00000258890	CEP95	centrosomal protein 95 [Source:HGNC Symbol;Acc:HGNC:25141]	0.23	0.23
RNA-SEQ-HUHTP6-009	10	ENSG00000175556	LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:HGNC:21152]	0.14	0.14
RNA-SEQ-HUHTP6-009	10	ENSG00000133739	LRRC1	leucine rich repeat and coiled-coil centrosomal protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]	0.60	0.60
RNA-SEQ-HUHTP6-009	10	ENSG00000251258	RFPL4B	ret finger protein like 4B [Source:HGNC Symbol;Acc:HGNC:33264]	0.38	0.38
RNA-SEQ-HUHTP6-009	10	ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	0.14	0.14
RNA-SEQ-HUHTP6-009	10	ENSG00000136936	XPA	XPA, DNA damage recognition and repair factor [Source:HGNC Symbol;Acc:HGNC:12814]	0.14	0.14

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description						\log_2 FC	\log_2 FC
				CYT	ER						
RNA-SEQ-HUHTP6-009	10	ENSG00000197044	ZNF441	zinc finger protein 441 [Source:HGNC Symbol;Acc:HGNC:20875]						0.52	0.52

Table 13: Co-expressed gene clusters (RNA-Seq, Huh7, 6h PI)

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description						\log_2 FC	\log_2 FC
										CYT	ER
RNA-SEQ-HUHTP12-001	2	ENSG00000235142	LINC02532	long intergenic non-protein coding RNA 2532 [Source:HGNC Symbol;Acc:HGNC:53549]						-0.79	-0.79
RNA-SEQ-HUHTP12-001	2	ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]						-3.62	-3.62
RNA-SEQ-HUHTP12-002	2	ENSG00000196482	ESRRG	estrogen related receptor gamma [Source:HGNC Symbol;Acc:HGNC:3474]						-2.13	-2.13
RNA-SEQ-HUHTP12-002	2	ENSG00000232368	FTLP2	ferritin light chain pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:4001]						-0.22	-0.22
RNA-SEQ-HUHTP12-003	2	ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]						-0.54	-0.54
RNA-SEQ-HUHTP12-003	2	ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]						-0.74	-0.74
RNA-SEQ-HUHTP12-004	2	ENSG00000164815	ORC5	origin recognition complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:8491]						0.13	0.13
RNA-SEQ-HUHTP12-004	2	ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]						0.29	0.29
RNA-SEQ-HUHTP12-005	3	ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]						0.34	0.34
RNA-SEQ-HUHTP12-005	3	ENSG00000092969	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]						0.26	0.26
RNA-SEQ-HUHTP12-005	3	ENSG00000180035	ZNF48	zinc finger protein 48 [Source:HGNC Symbol;Acc:HGNC:13114]						0.12	0.12
RNA-SEQ-HUHTP12-006	2	ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]						0.13	0.13
RNA-SEQ-HUHTP12-006	2	ENSG00000132718	SYT11	synaptotagmin 11 [Source:HGNC Symbol;Acc:HGNC:19239]						0.30	0.30
RNA-SEQ-HUHTP12-007	2	ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene [Source:HGNC Symbol;Acc:HGNC:46470]						-1.40	-1.40
RNA-SEQ-HUHTP12-007	2	ENSG00000239748	RN7SL795P	RNA, 7SL, cytoplasmic 795, pseudogene [Source:HGNC Symbol;Acc:HGNC:46811]						-1.45	-1.45
RNA-SEQ-HUHTP12-008	2	ENSG00000199223								-1.39	-1.39
RNA-SEQ-HUHTP12-008	2	ENSG00000265486	RN7SL518P	RNA, 7SL, cytoplasmic 518, pseudogene [Source:HGNC Symbol;Acc:HGNC:46534]						-1.81	-1.81
RNA-SEQ-HUHTP12-009	2	ENSG00000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]						-1.01	-1.01
RNA-SEQ-HUHTP12-009	2	ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]						-0.39	-0.39
RNA-SEQ-HUHTP12-010	2	ENSG00000207204	RNU6-393P	RNA, U6 small nuclear 393, pseudogene [Source:HGNC Symbol;Acc:HGNC:47356]						-0.06	-0.06
RNA-SEQ-HUHTP12-010	2	ENSG00000205903	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:13843]						-0.56	-0.56
RNA-SEQ-HUHTP12-011	3	ENSG00000247796								-1.12	-1.12
RNA-SEQ-HUHTP12-011	3	ENSG00000278898		TEC						-3.40	-3.40
RNA-SEQ-HUHTP12-011	3	ENSG00000205871	RPS3AP47	ribosomal protein S3a pseudogene 47 [Source:HGNC Symbol;Acc:HGNC:36744]						-1.08	-1.08
RNA-SEQ-HUHTP12-012	2	ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]						-2.01	-2.01
RNA-SEQ-HUHTP12-012	2	ENSG00000197937	ZNF347	zinc finger protein 347 [Source:HGNC Symbol;Acc:HGNC:16447]						-0.33	-0.33

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP12-013	3	ENSG00000244331		ribosomal protein, large, P2 (RPLP2) pseudogene	-0.83	-0.83
RNA-SEQ-HUHTP12-013	3	ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	-1.53	-1.53
RNA-SEQ-HUHTP12-013	3	ENSG00000183298	RPSAP19	ribosomal protein SA pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:36508]	-1.16	-1.16
RNA-SEQ-HUHTP12-014	4	ENSG00000259697		novel transcript	-1.65	-1.65
RNA-SEQ-HUHTP12-014	4	ENSG00000104312	RIPK2	receptor interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:10020]	-1.26	-1.26
RNA-SEQ-HUHTP12-014	4	ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]	-2.08	-2.08
RNA-SEQ-HUHTP12-014	4	ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	-0.58	-0.58
RNA-SEQ-HUHTP12-015	5	ENSG00000171224	FAM241B	family with sequence similarity 241 member B [Source:HGNC Symbol;Acc:HGNC:23519]	1.24	1.24
RNA-SEQ-HUHTP12-015	5	ENSG00000152749	GPR180	G protein-coupled receptor 180 [Source:HGNC Symbol;Acc:HGNC:28899]	1.08	1.08
RNA-SEQ-HUHTP12-015	5	ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	1.78	1.78
RNA-SEQ-HUHTP12-015	5	ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	2.55	2.55
RNA-SEQ-HUHTP12-015	5	ENSG00000228439	TSTD3	thiosulfate sulfurtransferase like domain containing 3 [Source:HGNC Symbol;Acc:HGNC:40910]	2.40	2.40
RNA-SEQ-HUHTP12-016	4	ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	-0.22	-0.22
RNA-SEQ-HUHTP12-016	4	ENSG0000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]	-0.22	-0.22
RNA-SEQ-HUHTP12-016	4	ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	-0.35	-0.35
RNA-SEQ-HUHTP12-016	4	ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	-0.04	-0.04
RNA-SEQ-HUHTP12-017	5	ENSG00000171130	ATP6V0E2	ATPase H ⁺ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:HGNC:21723]	-0.59	-0.59
RNA-SEQ-HUHTP12-017	5	ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	-0.17	-0.17
RNA-SEQ-HUHTP12-017	5	ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	-0.22	-0.22
RNA-SEQ-HUHTP12-017	5	ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	-0.46	-0.46
RNA-SEQ-HUHTP12-017	5	ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	-0.37	-0.37
RNA-SEQ-HUHTP12-018	5	ENSG00000206822			-0.89	-0.89
RNA-SEQ-HUHTP12-018	5	ENSG00000264112		novel transcript	-0.28	-0.28
RNA-SEQ-HUHTP12-018	5	ENSG00000283414			-1.19	-1.19
RNA-SEQ-HUHTP12-018	5	ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	-0.73	-0.73
RNA-SEQ-HUHTP12-018	5	ENSG00000158246	TENT5B	terminal nucleotidyltransferase 5B [Source:HGNC Symbol;Acc:HGNC:28273]	-1.12	-1.12
RNA-SEQ-HUHTP12-019	4	ENSG00000239742	RN7SL672P	RNA, 7SL, cytoplasmic 672, pseudogene [Source:HGNC Symbol;Acc:HGNC:46688]	-0.46	-0.46
RNA-SEQ-HUHTP12-019	4	ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]	-0.20	-0.20
RNA-SEQ-HUHTP12-019	4	ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]	-0.25	-0.25
RNA-SEQ-HUHTP12-019	4	ENSG00000105289	TJP3	tight junction protein 3 [Source:HGNC Symbol;Acc:HGNC:11829]	-0.41	-0.41

Table 14: Co-expressed gene clusters (RNA-Seq, Huh7, 12h PI)

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					<i>Log₂</i>	<i>Log₂</i>
				FC	CYT	Symbol	Acc	ER	FC	ER
RNA-SEQ-HUHTP24-001	2	ENSG00000183255	PTTG1IP	PTTG1 interacting protein [Source:HGNC Symbol;Acc:HGNC:13524]		Sym-			1.24	1.24
RNA-SEQ-HUHTP24-001	2	ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]					2.31	2.31
RNA-SEQ-HUHTP24-002	2	ENSG00000155304	HSPA13	heat shock protein family A (Hsp70) member 13 [Source:HGNC Symbol;Acc:HGNC:11375]					2.80	2.80
RNA-SEQ-HUHTP24-002	2	ENSG00000131507	NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:17592]					1.33	1.33
RNA-SEQ-HUHTP24-003	2	ENSG00000180867	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4607]					1.88	1.88
RNA-SEQ-HUHTP24-003	2	ENSG00000143870	PDIA6	protein disulfide isomerase family A member 6 [Source:HGNC Symbol;Acc:HGNC:30168]					2.03	2.03
RNA-SEQ-HUHTP24-004	2	ENSG00000001036	FUCA2	alpha-L-fucosidase 2 [Source:HGNC Symbol;Acc:HGNC:4008]		Sym-			1.46	1.46
RNA-SEQ-HUHTP24-004	2	ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutamate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]					2.22	2.22
RNA-SEQ-HUHTP24-005	3	ENSG00000181004	BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:HGNC:26648]		Sym-			1.68	1.68
RNA-SEQ-HUHTP24-005	3	ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]					2.46	2.46
RNA-SEQ-HUHTP24-005	3	ENSG00000204344	STK19	serine/threonine kinase 19 [Source:HGNC Symbol;Acc:HGNC:11398]		Sym-			1.58	1.58
RNA-SEQ-HUHTP24-006	2	ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]		Sym-			5.00	5.00
RNA-SEQ-HUHTP24-006	2	ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]		Sym-			4.86	4.86
RNA-SEQ-HUHTP24-007	2	ENSG00000142192	APP	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]		Sym-			2.33	2.33
RNA-SEQ-HUHTP24-007	2	ENSG00000135677	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4422]		Sym-			2.22	2.22
RNA-SEQ-HUHTP24-008	2	ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]		Sym-			4.75	4.75
RNA-SEQ-HUHTP24-008	2	ENSG00000187688	TRPV2	transient receptor potential cation channel subfamily V member 2 [Source:HGNC Symbol;Acc:HGNC:18082]					2.33	2.33
RNA-SEQ-HUHTP24-009	3	ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]					2.28	2.28
RNA-SEQ-HUHTP24-009	3	ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]		Sym-			1.46	1.46
RNA-SEQ-HUHTP24-009	3	ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]		Sym-			2.42	2.42
RNA-SEQ-HUHTP24-010	3	ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]		Sym-			1.82	1.82
RNA-SEQ-HUHTP24-010	3	ENSG00000145050	MANF	mesencephalic astrocyte derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:15461]					3.16	3.16
RNA-SEQ-HUHTP24-010	3	ENSG00000126561	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:HGNC:11366]		Sym-			1.40	1.40
RNA-SEQ-HUHTP24-011	3	ENSG00000116761	CTH	cystathione gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]		Sym-			2.75	2.75
RNA-SEQ-HUHTP24-011	3	ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]		Sym-			6.29	6.29
RNA-SEQ-HUHTP24-011	3	ENSG00000119048	UBE2B	ubiquitin conjugating enzyme E2 B [Source:HGNC Symbol;Acc:HGNC:12473]					1.15	1.15
RNA-SEQ-HUHTP24-012	3	ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]					2.04	2.04
RNA-SEQ-HUHTP24-012	3	ENSG00000110048	OSBP	oxysterol binding protein [Source:HGNC Symbol;Acc:HGNC:8503]		Sym-			1.10	1.10
RNA-SEQ-HUHTP24-012	3	ENSG00000168610	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]					0.70	0.70
RNA-SEQ-HUHTP24-013	2	ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]					2.90	2.90
RNA-SEQ-HUHTP24-013	2	ENSG00000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]					2.64	2.64

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-014	2	ENSG0000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	3.57	3.57
RNA-SEQ-HUHTP24-014	2	ENSG0000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]	1.98	1.98
RNA-SEQ-HUHTP24-015	2	ENSG0000243333	RN7SL174P	RNA, 7SL, cytoplasmic 174, pseudogene [Source:HGNC Symbol;Acc:HGNC:46190]	1.32	1.32
RNA-SEQ-HUHTP24-015	2	ENSG0000125304	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11865]	2.10	2.10
RNA-SEQ-HUHTP24-016	2	ENSG0000172071	EIF2AK3	eukaryotic translation initiation factor 2 alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]	1.96	1.96
RNA-SEQ-HUHTP24-016	2	ENSG0000167004	PDIA3	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	2.59	2.59
RNA-SEQ-HUHTP24-017	3	ENSG0000115902	SLC1A4	solute carrier family 1 member 4 [Source:HGNC Symbol;Acc:HGNC:10942]	4.16	4.16
RNA-SEQ-HUHTP24-017	3	ENSG0000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	3.20	3.20
RNA-SEQ-HUHTP24-017	3	ENSG0000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	3.81	3.81
RNA-SEQ-HUHTP24-018	3	ENSG0000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	1.31	1.31
RNA-SEQ-HUHTP24-018	3	ENSG0000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]	1.87	1.87
RNA-SEQ-HUHTP24-018	3	ENSG0000121064	SCPEP1	serine carboxypeptidase 1 [Source:HGNC Symbol;Acc:HGNC:29507]	2.41	2.41
RNA-SEQ-HUHTP24-019	3	ENSG0000071553	ATP6AP1	ATPase H ⁺ transporting accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:868]	2.27	2.27
RNA-SEQ-HUHTP24-019	3	ENSG0000102158	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:HGNC:28880]	1.98	1.98
RNA-SEQ-HUHTP24-019	3	ENSG0000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	1.32	1.32
RNA-SEQ-HUHTP24-020	2	ENSG0000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]	3.79	3.79
RNA-SEQ-HUHTP24-020	2	ENSG0000065060	UHRF1BP1	UHRF1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21216]	1.33	1.33
RNA-SEQ-HUHTP24-021	2	ENSG0000147257	GPC3	glycan 3 [Source:HGNC Symbol;Acc:HGNC:4451]	1.65	1.65
RNA-SEQ-HUHTP24-021	2	ENSG0000162736	NCSTN	nicastrin [Source:HGNC Symbol;Acc:HGNC:17091]	1.62	1.62
RNA-SEQ-HUHTP24-022	2	ENSG0000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	2.06	2.06
RNA-SEQ-HUHTP24-022	2	ENSG0000140105	WARS	tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:12729]	1.36	1.36
RNA-SEQ-HUHTP24-023	3	ENSG0000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]	1.52	1.52
RNA-SEQ-HUHTP24-023	3	ENSG0000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	2.32	2.32
RNA-SEQ-HUHTP24-023	3	ENSG0000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]	1.51	1.51
RNA-SEQ-HUHTP24-024	3	ENSG0000001630	CYP51A1	cytochrome P450 family 51 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2649]	1.79	1.79
RNA-SEQ-HUHTP24-024	3	ENSG0000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	1.73	1.73
RNA-SEQ-HUHTP24-024	3	ENSG0000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]	1.90	1.90
RNA-SEQ-HUHTP24-025	3	ENSG0000106927	AMBp	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]	2.10	2.10
RNA-SEQ-HUHTP24-025	3	ENSG0000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]	2.03	2.03
RNA-SEQ-HUHTP24-025	3	ENSG0000136816	TOR1B	torsin family 1 member B [Source:HGNC Symbol;Acc:HGNC:11995]	1.58	1.58
RNA-SEQ-HUHTP24-026	3	ENSG0000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]	1.14	1.14

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
							ER
RNA-SEQ-HUHTP24-026	3	ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	2.01		2.01
RNA-SEQ-HUHTP24-026	3	ENSG00000180879	SSR4	signal sequence receptor subunit 4 [Source:HGNC Symbol;Acc:HGNC:11326]	1.67		1.67
RNA-SEQ-HUHTP24-027	2	ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	1.58		1.58
RNA-SEQ-HUHTP24-027	2	ENSG00000164190	NIPBL	NIPBL, cohesin loading factor [Source:HGNC Symbol;Acc:HGNC:28862]	0.89		0.89
RNA-SEQ-HUHTP24-028	5	ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	4.25		4.25
RNA-SEQ-HUHTP24-028	5	ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]	1.33		1.33
RNA-SEQ-HUHTP24-028	5	ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	2.05		2.05
RNA-SEQ-HUHTP24-028	5	ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	2.50		2.50
RNA-SEQ-HUHTP24-028	5	ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	2.48		2.48
RNA-SEQ-HUHTP24-029	2	ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	5.06		5.06
RNA-SEQ-HUHTP24-029	2	ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	1.55		1.55
RNA-SEQ-HUHTP24-030	3	ENSG00000088038	CNOT3	CCR4-NOT transcription complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:7879]	1.42		1.42
RNA-SEQ-HUHTP24-030	3	ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]	2.68		2.68
RNA-SEQ-HUHTP24-030	3	ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	2.87		2.87
RNA-SEQ-HUHTP24-031	3	ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	1.35		1.35
RNA-SEQ-HUHTP24-031	3	ENSG00000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]	1.78		1.78
RNA-SEQ-HUHTP24-031	3	ENSG00000179406	LINC00174	long intergenic non-protein coding RNA 174 [Source:HGNC Symbol;Acc:HGNC:27788]	2.20		2.20
RNA-SEQ-HUHTP24-032	2	ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]	2.33		2.33
RNA-SEQ-HUHTP24-032	2	ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	2.31		2.31
RNA-SEQ-HUHTP24-033	2	ENSG00000100532	CGRRF1	cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:HGNC:15528]	1.69		1.69
RNA-SEQ-HUHTP24-033	2	ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	2.91		2.91
RNA-SEQ-HUHTP24-034	3	ENSG00000171298	GAA	glucosidase alpha, acid [Source:HGNC Symbol;Acc:HGNC:4065]	2.31		2.31
RNA-SEQ-HUHTP24-034	3	ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	2.01		2.01
RNA-SEQ-HUHTP24-034	3	ENSG00000103257	SLC7A5	solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063]	1.77		1.77
RNA-SEQ-HUHTP24-035	4	ENSG00000114019	AMOTL2	angiotonin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	1.79		1.79
RNA-SEQ-HUHTP24-035	4	ENSG00000118217	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:791]	1.39		1.39
RNA-SEQ-HUHTP24-035	4	ENSG00000153132	CLGN	calmegin [Source:HGNC Symbol;Acc:HGNC:2060]	2.31		2.31
RNA-SEQ-HUHTP24-035	4	ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]	1.89		1.89
RNA-SEQ-HUHTP24-036	3	ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	2.58		2.58
RNA-SEQ-HUHTP24-036	3	ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily I member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	1.77		1.77
RNA-SEQ-HUHTP24-036	3	ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]	2.26		2.26

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
RNA-SEQ-HUHTP24-037	2	ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	2.15	2.15	
RNA-SEQ-HUHTP24-037	2	ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	3.35	3.35	
RNA-SEQ-HUHTP24-038	3	ENSG00000234745	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932]	1.81	1.81	
RNA-SEQ-HUHTP24-038	3	ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	2.88	2.88	
RNA-SEQ-HUHTP24-038	3	ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]	1.77	1.77	
RNA-SEQ-HUHTP24-039	4	ENSG00000163251	FZD5	frizzled class receptor 5 [Source:HGNC Symbol;Acc:HGNC:4043]	1.48	1.48	
RNA-SEQ-HUHTP24-039	4	ENSG0000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]	1.46	1.46	
RNA-SEQ-HUHTP24-039	4	ENSG00000182934	SRPRA	SRP receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:11307]	1.58	1.58	
RNA-SEQ-HUHTP24-039	4	ENSG00000204070	SYS1	SYS1, golgi trafficking protein [Source:HGNC Symbol;Acc:HGNC:16162]	1.28	1.28	
RNA-SEQ-HUHTP24-040	2	ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]	3.31	3.31	
RNA-SEQ-HUHTP24-040	2	ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	2.38	2.38	
RNA-SEQ-HUHTP24-041	2	ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]	2.33	2.33	
RNA-SEQ-HUHTP24-041	2	ENSG00000173230	GOLGB1	golgin B1 [Source:HGNC Symbol;Acc:HGNC:4429]	1.12	1.12	
RNA-SEQ-HUHTP24-042	2	ENSG00000135404	CD63	CD63 molecule [Source:HGNC Symbol;Acc:HGNC:1692]	1.69	1.69	
RNA-SEQ-HUHTP24-042	2	ENSG00000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]	2.26	2.26	
RNA-SEQ-HUHTP24-043	3	ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	3.64	3.64	
RNA-SEQ-HUHTP24-043	3	ENSG0000010889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	2.09	2.09	
RNA-SEQ-HUHTP24-043	3	ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	2.86	2.86	
RNA-SEQ-HUHTP24-044	2	ENSG00000166794	PPIB	peptidyl/prolyl isomerase B [Source:HGNC Symbol;Acc:HGNC:9255]	1.73	1.73	
RNA-SEQ-HUHTP24-044	2	ENSG00000080031	PTPRH	protein tyrosine phosphatase, receptor type H [Source:HGNC Symbol;Acc:HGNC:9672]	1.27	1.27	
RNA-SEQ-HUHTP24-045	3	ENSG00000158470	B4GALT5	beta-1,4-galactosyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:928]	0.46	0.46	
RNA-SEQ-HUHTP24-045	3	ENSG00000134285	FKBP11	FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:18624]	1.96	1.96	
RNA-SEQ-HUHTP24-045	3	ENSG00000095209	TMEM38B	transmembrane protein 38B [Source:HGNC Symbol;Acc:HGNC:25535]	1.37	1.37	
RNA-SEQ-HUHTP24-046	2	ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	2.42	2.42	
RNA-SEQ-HUHTP24-046	2	ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	2.25	2.25	
RNA-SEQ-HUHTP24-047	3	ENSG00000100592	DAAM1	dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:HGNC:18142]	0.92	0.92	
RNA-SEQ-HUHTP24-047	3	ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	1.48	1.48	
RNA-SEQ-HUHTP24-047	3	ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	2.47	2.47	
RNA-SEQ-HUHTP24-048	4	ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]	0.99	0.99	
RNA-SEQ-HUHTP24-048	4	ENSG00000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]	1.84	1.84	
RNA-SEQ-HUHTP24-048	4	ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	2.34	2.34	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description							Log2 FC	Log2 FC
											CYT	ER
RNA-SEQ-HUHTP24-048	4	ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]							2.14	2.14
RNA-SEQ-HUHTP24-049	2	ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]							2.39	2.39
RNA-SEQ-HUHTP24-049	2	ENSG00000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]							1.62	1.62
RNA-SEQ-HUHTP24-050	2	ENSG00000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]							1.77	1.77
RNA-SEQ-HUHTP24-050	2	ENSG00000115307	AUP1	AUP1, lipid droplet regulating VLDL assembly factor [Source:HGNC Symbol;Acc:HGNC:891]							1.51	1.51
RNA-SEQ-HUHTP24-051	2	ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]							5.33	5.33
RNA-SEQ-HUHTP24-051	2	ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]							1.21	1.21
RNA-SEQ-HUHTP24-052	3	ENSG00000090530	P3H2	prolyl 3-hydroxylase 2 [Source:HGNC Symbol;Acc:HGNC:19317]							1.25	1.25
RNA-SEQ-HUHTP24-052	3	ENSG00000116521	SCAMP3	secretory carrier membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:10565]							1.53	1.53
RNA-SEQ-HUHTP24-052	3	ENSG00000157637	SLC38A10	solute carrier family 38 member 10 [Source:HGNC Symbol;Acc:HGNC:28237]							2.46	2.46
RNA-SEQ-HUHTP24-053	2	ENSG00000280670	CCDC163	coiled-coil domain containing 163 [Source:HGNC Symbol;Acc:HGNC:27003]							2.11	2.11
RNA-SEQ-HUHTP24-053	2	ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]							1.80	1.80
RNA-SEQ-HUHTP24-054	3	ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]							4.89	4.89
RNA-SEQ-HUHTP24-054	3	ENSG00000109320	NFKB1	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]							1.21	1.21
RNA-SEQ-HUHTP24-054	3	ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]							1.43	1.43
RNA-SEQ-HUHTP24-055	2	ENSG00000204520	MICA	MHC class I polypeptide-related sequence A [Source:HGNC Symbol;Acc:HGNC:7090]							1.84	1.84
RNA-SEQ-HUHTP24-055	2	ENSG00000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]							2.36	2.36
RNA-SEQ-HUHTP24-056	3	ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]							1.74	1.74
RNA-SEQ-HUHTP24-056	3	ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]							3.70	3.70
RNA-SEQ-HUHTP24-056	3	ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]							0.61	0.61
RNA-SEQ-HUHTP24-057	3	ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]							6.23	6.23
RNA-SEQ-HUHTP24-057	3	ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]							2.68	2.68
RNA-SEQ-HUHTP24-057	3	ENSG00000151846	PABPC3	poly(A) binding protein cytoplasmic 3 [Source:HGNC Symbol;Acc:HGNC:8556]							0.92	0.92
RNA-SEQ-HUHTP24-058	3	ENSG00000199223									-2.54	-2.54
RNA-SEQ-HUHTP24-058	3	ENSG00000002330	BAD	BCL2 associated agonist of cell death [Source:HGNC Symbol;Acc:HGNC:936]							-1.01	-1.01
RNA-SEQ-HUHTP24-058	3	ENSG00000250182	EEF1A1P13	eukaryotic translation elongation factor 1 alpha 1 pseudogene 13 [Source:HGNC Symbol;Acc:HGNC:3196]							-1.44	-1.44
RNA-SEQ-HUHTP24-059	3	ENSG00000118523	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:2500]							1.96	1.96
RNA-SEQ-HUHTP24-059	3	ENSG00000044574	HSPA5	heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238]							3.11	3.11
RNA-SEQ-HUHTP24-059	3	ENSG00000133135	RNF128	ring finger protein 128, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:21153]							2.06	2.06
RNA-SEQ-HUHTP24-060	3	ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]							2.62	2.62
RNA-SEQ-HUHTP24-060	3	ENSG00000067167	TRAM1	translocation associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:20568]							1.45	1.45

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2		
					FC	CYT	FC
RNA-SEQ-HUHTP24-060	3	ENSG00000055483	USP36	ubiquitin specific peptidase 36 [Source:HGNC Symbol;Acc:HGNC:20062]	0.81	0.81	
RNA-SEQ-HUHTP24-061	4	ENSG00000168564	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:HGNC:24325]	1.25	1.25	
RNA-SEQ-HUHTP24-061	4	ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]	1.40	1.40	
RNA-SEQ-HUHTP24-061	4	ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]	2.09	2.09	
RNA-SEQ-HUHTP24-061	4	ENSG00000117500	TMED5	transmembrane p24 trafficking protein 5 [Source:HGNC Symbol;Acc:HGNC:24251]	1.26	1.26	
RNA-SEQ-HUHTP24-062	2	ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	2.62	2.62	
RNA-SEQ-HUHTP24-062	2	ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]	2.13	2.13	
RNA-SEQ-HUHTP24-063	3	ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	1.89	1.89	
RNA-SEQ-HUHTP24-063	3	ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	2.22	2.22	
RNA-SEQ-HUHTP24-063	3	ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	3.80	3.80	
RNA-SEQ-HUHTP24-064	4	ENSG00000107201	DDX58	DEExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	1.81	1.81	
RNA-SEQ-HUHTP24-064	4	ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	3.98	3.98	
RNA-SEQ-HUHTP24-064	4	ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	1.38	1.38	
RNA-SEQ-HUHTP24-064	4	ENSG00000198718	TOGARAM1	TOG array regulator of axonemal microtubules 1 [Source:HGNC Symbol;Acc:HGNC:19959]	0.94	0.94	
RNA-SEQ-HUHTP24-065	3	ENSG00000143753	DEGS1	delta 4-desaturase, sphingolipid 1 [Source:HGNC Symbol;Acc:HGNC:13709]	2.68	2.68	
RNA-SEQ-HUHTP24-065	3	ENSG00000148719	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12 [Source:HGNC Symbol;Acc:HGNC:14891]	1.32	1.32	
RNA-SEQ-HUHTP24-065	3	ENSG00000140391	TSPAN3	tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]	1.30	1.30	
RNA-SEQ-HUHTP24-066	2	ENSG00000169087	HSPBAP1	HSPB1 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16389]	0.78	0.78	
RNA-SEQ-HUHTP24-066	2	ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]	1.64	1.64	
RNA-SEQ-HUHTP24-067	5	ENSG00000109572	CLCN3	chloride voltage-gated channel 3 [Source:HGNC Symbol;Acc:HGNC:2021]	0.97	0.97	
RNA-SEQ-HUHTP24-067	5	ENSG00000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]	2.17	2.17	
RNA-SEQ-HUHTP24-067	5	ENSG00000163435	ELF3	E74 like ETS transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:3318]	1.83	1.83	
RNA-SEQ-HUHTP24-067	5	ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	1.83	1.83	
RNA-SEQ-HUHTP24-067	5	ENSG00000121073	SLC35B1	solute carrier family 35 member B1 [Source:HGNC Symbol;Acc:HGNC:20798]	1.51	1.51	
RNA-SEQ-HUHTP24-068	2	ENSG00000204592	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:HGNC:4962]	2.14	2.14	
RNA-SEQ-HUHTP24-068	2	ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	3.08	3.08	
RNA-SEQ-HUHTP24-069	4	ENSG00000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]	2.29	2.29	
RNA-SEQ-HUHTP24-069	4	ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	1.92	1.92	
RNA-SEQ-HUHTP24-069	4	ENSG00000118271	TTR	transthyretin [Source:HGNC Symbol;Acc:HGNC:12405]	1.40	1.40	
RNA-SEQ-HUHTP24-069	4	ENSG00000248208	WDR45P1	WD repeat domain 45 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:52406]	1.97	1.97	
RNA-SEQ-HUHTP24-070	2	ENSG00000077942	FBLN1	fibrulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	2.93	2.93	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-070	2	ENSG00000163898	LIPH	lipase H [Source:HGNC Symbol;Acc:HGNC:18483]	1.53	1.53
RNA-SEQ-HUHTP24-071	2	ENSG0000072364	AFF4	AF4/FMR2 family member 4 [Source:HGNC Symbol;Acc:HGNC:17869]	0.91	0.91
RNA-SEQ-HUHTP24-071	2	ENSG0000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]	2.16	2.16
RNA-SEQ-HUHTP24-072	7	ENSG0000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	2.57	2.57
RNA-SEQ-HUHTP24-072	7	ENSG0000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	3.21	3.21
RNA-SEQ-HUHTP24-072	7	ENSG0000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	4.16	4.16
RNA-SEQ-HUHTP24-072	7	ENSG0000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	2.59	2.59
RNA-SEQ-HUHTP24-072	7	ENSG0000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	3.00	3.00
RNA-SEQ-HUHTP24-072	7	ENSG0000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	3.12	3.12
RNA-SEQ-HUHTP24-072	7	ENSG0000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	3.43	3.43
RNA-SEQ-HUHTP24-073	5	ENSG0000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	3.67	3.67
RNA-SEQ-HUHTP24-073	5	ENSG0000172732	MUS81	MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:29814]	1.02	1.02
RNA-SEQ-HUHTP24-073	5	ENSG0000136997	MYC	MYC proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7553]	1.70	1.70
RNA-SEQ-HUHTP24-073	5	ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	2.25	2.25
RNA-SEQ-HUHTP24-073	5	ENSG0000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]	1.73	1.73
RNA-SEQ-HUHTP24-074	2	ENSG0000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	3.43	3.43
RNA-SEQ-HUHTP24-074	2	ENSG0000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	1.83	1.83
RNA-SEQ-HUHTP24-075	5	ENSG0000101199	ARFGAP1	ADP ribosylation factor GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:15852]	1.08	1.08
RNA-SEQ-HUHTP24-075	5	ENSG0000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]	1.63	1.63
RNA-SEQ-HUHTP24-075	5	ENSG0000131871	SELENOS	seleoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]	2.94	2.94
RNA-SEQ-HUHTP24-075	5	ENSG0000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]	2.19	2.19
RNA-SEQ-HUHTP24-075	5	ENSG0000178229	ZNF543	zinc finger protein 543 [Source:HGNC Symbol;Acc:HGNC:25281]	1.71	1.71
RNA-SEQ-HUHTP24-076	4	ENSG0000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]	3.04	3.04
RNA-SEQ-HUHTP24-076	4	ENSG0000068912	ERLEC1	endoplasmic reticulum lectin 1 [Source:HGNC Symbol;Acc:HGNC:25222]	1.29	1.29
RNA-SEQ-HUHTP24-076	4	ENSG0000179818	PCBP1-AS1	PCBP1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:42948]	1.13	1.13
RNA-SEQ-HUHTP24-076	4	ENSG0000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	2.35	2.35
RNA-SEQ-HUHTP24-077	4	ENSG0000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3797]	3.42	3.42
RNA-SEQ-HUHTP24-077	4	ENSG0000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]	0.83	0.83
RNA-SEQ-HUHTP24-077	4	ENSG0000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	2.05	2.05
RNA-SEQ-HUHTP24-077	4	ENSG0000147852	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]	1.70	1.70
RNA-SEQ-HUHTP24-078	5	ENSG0000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	2.98	2.98

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-078	5	ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	3.26	3.26
RNA-SEQ-HUHTP24-078	5	ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	3.13	3.13
RNA-SEQ-HUHTP24-078	5	ENSG00000025796	SEC63	SEC63 homolog, protein translocation regulator [Source:HGNC Symbol;Acc:HGNC:21082]	1.34	1.34
RNA-SEQ-HUHTP24-078	5	ENSG00000115306	SPTBN1	spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:11275]	1.27	1.27
RNA-SEQ-HUHTP24-079	3	ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	3.02	3.02
RNA-SEQ-HUHTP24-079	3	ENSG00000108622	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:5345]	1.93	1.93
RNA-SEQ-HUHTP24-079	3	ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	2.46	2.46
RNA-SEQ-HUHTP24-080	4	ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	3.99	3.99
RNA-SEQ-HUHTP24-080	4	ENSG00000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]	1.93	1.93
RNA-SEQ-HUHTP24-080	4	ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]	1.47	1.47
RNA-SEQ-HUHTP24-080	4	ENSG00000124783	SSR1	signal sequence receptor subunit 1 [Source:HGNC Symbol;Acc:HGNC:11323]	1.48	1.48
RNA-SEQ-HUHTP24-081	4	ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	4.03	4.03
RNA-SEQ-HUHTP24-081	4	ENSG00000134480	CCNH	cyclin H [Source:HGNC Symbol;Acc:HGNC:1594]	1.17	1.17
RNA-SEQ-HUHTP24-081	4	ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	2.73	2.73
RNA-SEQ-HUHTP24-081	4	ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	1.89	1.89
RNA-SEQ-HUHTP24-082	2	ENSG00000278701			-1.24	-1.24
RNA-SEQ-HUHTP24-082	2	ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]	-0.79	-0.79
RNA-SEQ-HUHTP24-083	3	ENSG00000038002	AGA	aspartyl/glycosaminidase [Source:HGNC Symbol;Acc:HGNC:318]	2.96	2.96
RNA-SEQ-HUHTP24-083	3	ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	4.12	4.12
RNA-SEQ-HUHTP24-083	3	ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	1.53	1.53
RNA-SEQ-HUHTP24-084	4	ENSG00000107864	CPEB3	cytoplasmic polyadenylation element binding protein 3 [Source:HGNC Symbol;Acc:HGNC:21746]	2.26	2.26
RNA-SEQ-HUHTP24-084	4	ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	2.88	2.88
RNA-SEQ-HUHTP24-084	4	ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	0.64	0.64
RNA-SEQ-HUHTP24-084	4	ENSG00000189164	ZNF527	zinc finger protein 527 [Source:HGNC Symbol;Acc:HGNC:29385]	1.86	1.86
RNA-SEQ-HUHTP24-085	4	ENSG00000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	3.62	3.62
RNA-SEQ-HUHTP24-085	4	ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]	1.20	1.20
RNA-SEQ-HUHTP24-085	4	ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	3.86	3.86
RNA-SEQ-HUHTP24-085	4	ENSG00000117523	PRRC2C	proline rich coiled-coil 2C [Source:HGNC Symbol;Acc:HGNC:24903]	1.13	1.13
RNA-SEQ-HUHTP24-086	4	ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	2.96	2.96
RNA-SEQ-HUHTP24-086	4	ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	2.46	2.46
RNA-SEQ-HUHTP24-086	4	ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	0.96	0.96

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2		
					FC	CYT	FC
RNA-SEQ-HUHTP24-086	4	ENSG00000167978	SRRM2	serine/arginine repetitive matrix 2 [Source:HGNC Symbol;Acc:HGNC:16639]	Sym-	1.07	1.07
RNA-SEQ-HUHTP24-087	5	ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	Sym-	1.87	1.87
RNA-SEQ-HUHTP24-087	5	ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	Sym-	1.27	1.27
RNA-SEQ-HUHTP24-087	5	ENSG00000106105	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:4162]	Sym-	1.43	1.43
RNA-SEQ-HUHTP24-087	5	ENSG0000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	Sym-	1.48	1.48
RNA-SEQ-HUHTP24-087	5	ENSG00000136936	XPA	XPA, DNA damage recognition and repair factor [Source:HGNC Symbol;Acc:HGNC:12814]	Sym-	1.18	1.18
RNA-SEQ-HUHTP24-088	3	ENSG00000149485	FADS1	fatty acid desaturase 1 [Source:HGNC Symbol;Acc:HGNC:3574]	Sym-	1.36	1.36
RNA-SEQ-HUHTP24-088	3	ENSG00000147649	MTDH	metadherin [Source:HGNC Symbol;Acc:HGNC:29608]		1.75	1.75
RNA-SEQ-HUHTP24-088	3	ENSG00000134294	SLC38A2	solute carrier family 38 member 2 [Source:HGNC Symbol;Acc:HGNC:13448]	Sym-	1.65	1.65
RNA-SEQ-HUHTP24-089	2	ENSG0000096968	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]		1.09	1.09
RNA-SEQ-HUHTP24-089	2	ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]		1.41	1.41
RNA-SEQ-HUHTP24-090	2	ENSG00000115170	ACVR1	activin A receptor type 1 [Source:HGNC Symbol;Acc:HGNC:171]	Sym-	1.12	1.12
RNA-SEQ-HUHTP24-090	2	ENSG00000123384	LRP1	LDL receptor related protein 1 [Source:HGNC Symbol;Acc:HGNC:6692]	Sym-	2.11	2.11
RNA-SEQ-HUHTP24-091	3	ENSG0000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]		2.61	2.61
RNA-SEQ-HUHTP24-091	3	ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]		1.59	1.59
RNA-SEQ-HUHTP24-091	3	ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	Sym-	2.93	2.93
RNA-SEQ-HUHTP24-092	2	ENSG0000008311	AASS	amino adipate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]	Sym-	0.55	0.55
RNA-SEQ-HUHTP24-092	2	ENSG00000126777	KTN1	kinectin 1 [Source:HGNC Symbol;Acc:HGNC:6467]		0.38	0.38
RNA-SEQ-HUHTP24-093	3	ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	Sym-	4.38	4.38
RNA-SEQ-HUHTP24-093	3	ENSG00000128683	GAD1	glutamate decarboxylase 1 [Source:HGNC Symbol;Acc:HGNC:4092]	Sym-	1.68	1.68
RNA-SEQ-HUHTP24-093	3	ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]		1.53	1.53
RNA-SEQ-HUHTP24-094	5	ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]		1.83	1.83
RNA-SEQ-HUHTP24-094	5	ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]		1.55	1.55
RNA-SEQ-HUHTP24-094	5	ENSG00000173812	EIF1	eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:HGNC:3249]		0.98	0.98
RNA-SEQ-HUHTP24-094	5	ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	Sym-	2.19	2.19
RNA-SEQ-HUHTP24-094	5	ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	Sym-	4.06	4.06
RNA-SEQ-HUHTP24-095	2	ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]	Sym-	-1.02	-1.02
RNA-SEQ-HUHTP24-095	2	ENSG00000196482	ESRRG	estrogen related receptor gamma [Source:HGNC Symbol;Acc:HGNC:3474]	Sym-	-1.40	-1.40
RNA-SEQ-HUHTP24-096	3	ENSG00000213614	HEXA	hexosaminidase subunit alpha [Source:HGNC Symbol;Acc:HGNC:4878]	Sym-	1.04	1.04
RNA-SEQ-HUHTP24-096	3	ENSG00000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]		1.92	1.92
RNA-SEQ-HUHTP24-096	3	ENSG00000078804	TP53INP2	tumor protein p53 inducible nuclear protein 2 [Source:HGNC Symbol;Acc:HGNC:16104]		1.32	1.32

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-097	5	ENSG00000132031	MATN3	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]	2.04	2.04
RNA-SEQ-HUHTP24-097	5	ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]	1.87	1.87
RNA-SEQ-HUHTP24-097	5	ENSG00000135506	OS9	OS9, endoplasmic reticulum lectin [Source:HGNC Symbol;Acc:HGNC:16994]	1.97	1.97
RNA-SEQ-HUHTP24-097	5	ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	2.22	2.22
RNA-SEQ-HUHTP24-097	5	ENSG00000132718	SYT11	synaptotagmin 11 [Source:HGNC Symbol;Acc:HGNC:19239]	2.23	2.23
RNA-SEQ-HUHTP24-098	3	ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	1.59	1.59
RNA-SEQ-HUHTP24-098	3	ENSG00000094975	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:HGNC:1240]	1.15	1.15
RNA-SEQ-HUHTP24-098	3	ENSG00000134970	TMED7	transmembrane p24 trafficking protein 7 [Source:HGNC Symbol;Acc:HGNC:24253]	1.47	1.47
RNA-SEQ-HUHTP24-099	5	ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	3.89	3.89
RNA-SEQ-HUHTP24-099	5	ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	2.24	2.24
RNA-SEQ-HUHTP24-099	5	ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]	1.32	1.32
RNA-SEQ-HUHTP24-099	5	ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	1.05	1.05
RNA-SEQ-HUHTP24-099	5	ENSG00000197808	ZNF461	zinc finger protein 461 [Source:HGNC Symbol;Acc:HGNC:21629]	0.90	0.90
RNA-SEQ-HUHTP24-100	2	ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	2.45	2.45
RNA-SEQ-HUHTP24-100	2	ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]	1.55	1.55
RNA-SEQ-HUHTP24-101	3	ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]	1.77	1.77
RNA-SEQ-HUHTP24-101	3	ENSG00000252294	RNU6-589P	RNA, U6 small nuclear 589, pseudogene [Source:HGNC Symbol;Acc:HGNC:47552]	2.84	2.84
RNA-SEQ-HUHTP24-101	3	ENSG00000100242	SUN2	Sad1 and UNC84 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14210]	2.55	2.55
RNA-SEQ-HUHTP24-102	2	ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	4.14	4.14
RNA-SEQ-HUHTP24-102	2	ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]	1.69	1.69
RNA-SEQ-HUHTP24-103	4	ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	1.12	1.12
RNA-SEQ-HUHTP24-103	4	ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	1.70	1.70
RNA-SEQ-HUHTP24-103	4	ENSG00000182199	SHMT2	serine hydroxymethyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10852]	1.13	1.13
RNA-SEQ-HUHTP24-103	4	ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	0.61	0.61
RNA-SEQ-HUHTP24-104	3	ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]	0.46	0.46
RNA-SEQ-HUHTP24-104	3	ENSG00000164815	ORC5	origin recognition complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:8491]	0.72	0.72
RNA-SEQ-HUHTP24-104	3	ENSG00000277149	TYW1B	tRNA- γ W synthesizing protein 1 homolog B [Source:HGNC Symbol;Acc:HGNC:33908]	1.10	1.10
RNA-SEQ-HUHTP24-105	2	ENSG00000229314	ORM1	orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]	2.46	2.46
RNA-SEQ-HUHTP24-105	2	ENSG00000204859	ZBTB48	zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:HGNC:4930]	1.58	1.58
RNA-SEQ-HUHTP24-106	7	ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	1.11	1.11
RNA-SEQ-HUHTP24-106	7	ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	2.79	2.79

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description							\log_2 FC	\log_2 FC CYT
RNA-SEQ-HUHTP24-106	7	ENSG00000234678	ELF3-AS1	ELF3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40211]							1.17	1.17
RNA-SEQ-HUHTP24-106	7	ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]							3.20	3.20
RNA-SEQ-HUHTP24-106	7	ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]							3.08	3.08
RNA-SEQ-HUHTP24-106	7	ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]							1.80	1.80
RNA-SEQ-HUHTP24-106	7	ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]							1.81	1.81
RNA-SEQ-HUHTP24-107	4	ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]							2.26	2.26
RNA-SEQ-HUHTP24-107	4	ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]							0.99	0.99
RNA-SEQ-HUHTP24-107	4	ENSG00000101856	PGRMC1	progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:HGNC:16090]							1.30	1.30
RNA-SEQ-HUHTP24-107	4	ENSG00000120519	SLC10A7	solute carrier family 10 member 7 [Source:HGNC Symbol;Acc:HGNC:23088]							2.22	2.22
RNA-SEQ-HUHTP24-108	6	ENSG00000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]							0.77	0.77
RNA-SEQ-HUHTP24-108	6	ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]							1.92	1.92
RNA-SEQ-HUHTP24-108	6	ENSG00000068697	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]							1.78	1.78
RNA-SEQ-HUHTP24-108	6	ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]							1.77	1.77
RNA-SEQ-HUHTP24-108	6	ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]							2.12	2.12
RNA-SEQ-HUHTP24-108	6	ENSG00000176473	WDR25	WD repeat domain 25 [Source:HGNC Symbol;Acc:HGNC:21064]							1.01	1.01
RNA-SEQ-HUHTP24-109	5	ENSG00000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]							1.62	1.62
RNA-SEQ-HUHTP24-109	5	ENSG00000164307	ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]							1.57	1.57
RNA-SEQ-HUHTP24-109	5	ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]							1.59	1.59
RNA-SEQ-HUHTP24-109	5	ENSG00000110344	UBE4A	ubiquitination factor E4A [Source:HGNC Symbol;Acc:HGNC:12499]							1.31	1.31
RNA-SEQ-HUHTP24-109	5	ENSG00000128016	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:HGNC:12862]							1.56	1.56
RNA-SEQ-HUHTP24-110	2	ENSG00000023318	ERP44	endoplasmic reticulum protein 44 [Source:HGNC Symbol;Acc:HGNC:18311]							1.35	1.35
RNA-SEQ-HUHTP24-110	2	ENSG00000127957	PMS2P3	PMS1 homolog 2, mismatch repair system component pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:9128]							1.36	1.36
RNA-SEQ-HUHTP24-111	3	ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]							2.21	2.21
RNA-SEQ-HUHTP24-111	3	ENSG0000012174	MBTPS2	membrane bound transcription factor peptidase, site 2 [Source:HGNC Symbol;Acc:HGNC:15455]							1.39	1.39
RNA-SEQ-HUHTP24-111	3	ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]							1.31	1.31
RNA-SEQ-HUHTP24-112	5	ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]							1.78	1.78
RNA-SEQ-HUHTP24-112	5	ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]							2.71	2.71
RNA-SEQ-HUHTP24-112	5	ENSG00000136068	FLNB	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]							1.81	1.81
RNA-SEQ-HUHTP24-112	5	ENSG00000155660	PDIA4	protein disulfide isomerase family A member 4 [Source:HGNC Symbol;Acc:HGNC:30167]							2.99	2.99
RNA-SEQ-HUHTP24-112	5	ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]							2.50	2.50

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-113	4	ENSG00000185896	LAMP1	lysosomal associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:6499]	1.37	1.37
RNA-SEQ-HUHTP24-113	4	ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]	2.29	2.29
RNA-SEQ-HUHTP24-113	4	ENSG00000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	2.17	2.17
RNA-SEQ-HUHTP24-113	4	ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]	2.25	2.25
RNA-SEQ-HUHTP24-114	6	ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	1.85	1.85
RNA-SEQ-HUHTP24-114	6	ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]	2.68	2.68
RNA-SEQ-HUHTP24-114	6	ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	1.55	1.55
RNA-SEQ-HUHTP24-114	6	ENSG00000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]	2.12	2.12
RNA-SEQ-HUHTP24-114	6	ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	2.22	2.22
RNA-SEQ-HUHTP24-114	6	ENSG00000156858	PRR14	proline rich 14 [Source:HGNC Symbol;Acc:HGNC:28458]	2.89	2.89
RNA-SEQ-HUHTP24-115	3	ENSG00000136986	DERL1	derlin 1 [Source:HGNC Symbol;Acc:HGNC:28454]	1.34	1.34
RNA-SEQ-HUHTP24-115	3	ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	0.93	0.93
RNA-SEQ-HUHTP24-115	3	ENSG00000143643	TTC13	tetratricopeptide repeat domain 13 [Source:HGNC Symbol;Acc:HGNC:26204]	0.72	0.72
RNA-SEQ-HUHTP24-116	4	ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]	3.04	3.04
RNA-SEQ-HUHTP24-116	4	ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	1.58	1.58
RNA-SEQ-HUHTP24-116	4	ENSG00000138050	THUMPD2	THUMP domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14890]	0.79	0.79
RNA-SEQ-HUHTP24-116	4	ENSG00000169131	ZNF354A	zinc finger protein 354A [Source:HGNC Symbol;Acc:HGNC:11628]	2.82	2.82
RNA-SEQ-HUHTP24-117	3	ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]	2.38	2.38
RNA-SEQ-HUHTP24-117	3	ENSG00000185950	IRS2	insulin receptor substrate 2 [Source:HGNC Symbol;Acc:HGNC:6126]	1.54	1.54
RNA-SEQ-HUHTP24-117	3	ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	2.08	2.08
RNA-SEQ-HUHTP24-118	6	ENSG00000120697	ALG5	ALG5, dolichyl-phosphate beta-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20266]	1.87	1.87
RNA-SEQ-HUHTP24-118	6	ENSG00000108588	CCDC47	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]	1.35	1.35
RNA-SEQ-HUHTP24-118	6	ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	2.31	2.31
RNA-SEQ-HUHTP24-118	6	ENSG00000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	1.20	1.20
RNA-SEQ-HUHTP24-118	6	ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	1.55	1.55
RNA-SEQ-HUHTP24-118	6	ENSG00000100219	XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:HGNC:12801]	1.44	1.44
RNA-SEQ-HUHTP24-119	3	ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	0.62	0.62
RNA-SEQ-HUHTP24-119	3	ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]	0.28	0.28
RNA-SEQ-HUHTP24-119	3	ENSG00000238444	RNU6-893P	RNA, U6 small nuclear 893, pseudogene [Source:HGNC Symbol;Acc:HGNC:47856]	0.21	0.21
RNA-SEQ-HUHTP24-120	3	ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	1.57	1.57
RNA-SEQ-HUHTP24-120	3	ENSG00000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]	1.34	1.34

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-120	3	ENSG00000133624	ZNF767P	zinc finger family member 767, pseudogene [Source:HGNC Symbol;Acc:HGNC:21884]	1.85	1.85
RNA-SEQ-HUHTP24-121	2	ENSG00000008323	PLEKHG6	pleckstrin homology and RhoGEF domain containing G6 [Source:HGNC Symbol;Acc:HGNC:25562]	-0.51	-0.51
RNA-SEQ-HUHTP24-121	2	ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	-1.21	-1.21
RNA-SEQ-HUHTP24-122	4	ENSG00000145246	ATP10D	ATPase phospholipid transporting 10D (putative) [Source:HGNC Symbol;Acc:HGNC:13549]	1.83	1.83
RNA-SEQ-HUHTP24-122	4	ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	2.68	2.68
RNA-SEQ-HUHTP24-122	4	ENSG00000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	0.52	0.52
RNA-SEQ-HUHTP24-122	4	ENSG00000134548	SPX	spexin hormone [Source:HGNC Symbol;Acc:HGNC:28139]	1.88	1.88
RNA-SEQ-HUHTP24-123	2	ENSG00000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]	1.66	1.66
RNA-SEQ-HUHTP24-123	2	ENSG00000169359	SLC33A1	solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95]	1.52	1.52
RNA-SEQ-HUHTP24-124	4	ENSG00000206822			-0.96	-0.96
RNA-SEQ-HUHTP24-124	4	ENSG00000187288	CIDEc	cell death inducing DFFA like effector c [Source:HGNC Symbol;Acc:HGNC:24229]	-0.69	-0.69
RNA-SEQ-HUHTP24-124	4	ENSG00000187942	LDLRAD2	low density lipoprotein receptor class A domain containing 2 [Source:HGNC Symbol;Acc:HGNC:32071]	-0.96	-0.96
RNA-SEQ-HUHTP24-124	4	ENSG00000239211	RN7SL563P	RNA, 7SL, cytoplasmic 563, pseudogene [Source:HGNC Symbol;Acc:HGNC:46579]	-1.55	-1.55
RNA-SEQ-HUHTP24-125	2	ENSG00000135127	BICDL1	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	-0.84	-0.84
RNA-SEQ-HUHTP24-125	2	ENSG00000158156	XKR8	XK related 8 [Source:HGNC Symbol;Acc:HGNC:25508]	-0.45	-0.45
RNA-SEQ-HUHTP24-126	7	ENSG00000134352	IL6ST	interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:6021]	1.04	1.04
RNA-SEQ-HUHTP24-126	7	ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]	1.36	1.36
RNA-SEQ-HUHTP24-126	7	ENSG00000134901	KDELc1	KDEL motif containing 1 [Source:HGNC Symbol;Acc:HGNC:19350]	2.03	2.03
RNA-SEQ-HUHTP24-126	7	ENSG00000145730	PAM	peptidyl/glycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	0.98	0.98
RNA-SEQ-HUHTP24-126	7	ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]	1.27	1.27
RNA-SEQ-HUHTP24-126	7	ENSG00000112697	TMEM30A	transmembrane protein 30A [Source:HGNC Symbol;Acc:HGNC:16667]	1.27	1.27
RNA-SEQ-HUHTP24-126	7	ENSG00000120889	TNFRSF10B	TNF receptor superfamily member 10b [Source:HGNC Symbol;Acc:HGNC:11905]	1.66	1.66
RNA-SEQ-HUHTP24-127	5	ENSG00000085563	ABCB1	ATP binding cassette subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:40]	1.63	1.63
RNA-SEQ-HUHTP24-127	5	ENSG00000182220	ATP6AP2	ATPase H ⁺ transporting accessory protein 2 [Source:HGNC Symbol;Acc:HGNC:18305]	1.95	1.95
RNA-SEQ-HUHTP24-127	5	ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]	2.47	2.47
RNA-SEQ-HUHTP24-127	5	ENSG00000169432	SCN9A	sodium voltage-gated channel alpha subunit 9 [Source:HGNC Symbol;Acc:HGNC:10597]	0.76	0.76
RNA-SEQ-HUHTP24-127	5	ENSG00000166188	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:HGNC:13644]	2.84	2.84
RNA-SEQ-HUHTP24-128	3	ENSG00000154265	ABCa5	ATP binding cassette subfamily A member 5 [Source:HGNC Symbol;Acc:HGNC:35]	0.65	0.65
RNA-SEQ-HUHTP24-128	3	ENSG0000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	0.68	0.68
RNA-SEQ-HUHTP24-128	3	ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	1.04	1.04
RNA-SEQ-HUHTP24-129	3	ENSG00000111897	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:HGNC:13464]	1.31	1.31

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
RNA-SEQ-HUHTP24-129	3	ENSG00000118596	SLC16A7	solute carrier family 16 member 7 [Source:HGNC Symbol;Acc:HGNC:10928]	1.15		1.15
RNA-SEQ-HUHTP24-129	3	ENSG00000004866	ST7	suppression of tumorigenicity 7 [Source:HGNC Symbol;Acc:HGNC:11351]	0.98		0.98
RNA-SEQ-HUHTP24-130	4	ENSG00000115380	EFEMP1	EGF containing fibulin extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3218]	1.50		1.50
RNA-SEQ-HUHTP24-130	4	ENSG00000104805	NUCB1	nucleobindin 1 [Source:HGNC Symbol;Acc:HGNC:8043]	2.11		2.11
RNA-SEQ-HUHTP24-130	4	ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	1.58		1.58
RNA-SEQ-HUHTP24-130	4	ENSG00000137207	YIPF3	Yip1 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:21023]	1.48		1.48
RNA-SEQ-HUHTP24-131	4	ENSG00000165556	CDX2	caudal type homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1806]	-0.92		-0.92
RNA-SEQ-HUHTP24-131	4	ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]	-0.52		-0.52
RNA-SEQ-HUHTP24-131	4	ENSG00000065057	NTHL1	nth like DNA glycosylase 1 [Source:HGNC Symbol;Acc:HGNC:8028]	-0.49		-0.49
RNA-SEQ-HUHTP24-131	4	ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	-2.78		-2.78
RNA-SEQ-HUHTP24-132	2	ENSG00000200436					-2.25
RNA-SEQ-HUHTP24-132	2	ENSG00000214485	RPL7P1	ribosomal protein L7 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10367]	-1.23		-1.23
RNA-SEQ-HUHTP24-133	3	ENSG00000280789	PAGR1	PAXIP1 associated glutamate rich protein 1 [Source:HGNC Symbol;Acc:HGNC:28707]	-0.62		-0.62
RNA-SEQ-HUHTP24-133	3	ENSG00000225455	TPI1P4	triosephosphate isomerase 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:38071]	-2.80		-2.80
RNA-SEQ-HUHTP24-133	3	ENSG00000179965	ZNF771	zinc finger protein 771 [Source:HGNC Symbol;Acc:HGNC:29653]	-0.54		-0.54
RNA-SEQ-HUHTP24-134	3	ENSG00000100100	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24942]	2.38		2.38
RNA-SEQ-HUHTP24-134	3	ENSG00000168938	PPIC	peptidyl prolyl isomerase C [Source:HGNC Symbol;Acc:HGNC:9256]	1.76		1.76
RNA-SEQ-HUHTP24-134	3	ENSG00000180035	ZNF48	zinc finger protein 48 [Source:HGNC Symbol;Acc:HGNC:13114]	1.10		1.10
RNA-SEQ-HUHTP24-135	4	ENSG00000124243	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:HGNC:14367]	-0.07		-0.07
RNA-SEQ-HUHTP24-135	4	ENSG00000243420	RN7SL734P	RNA, 7SL, cytoplasmic 734, pseudogene [Source:HGNC Symbol;Acc:HGNC:46750]	-0.13		-0.13
RNA-SEQ-HUHTP24-135	4	ENSG00000199562	RNU6-37P	RNA, U6 small nuclear 37, pseudogene [Source:HGNC Symbol;Acc:HGNC:34281]	-0.29		-0.29
RNA-SEQ-HUHTP24-135	4	ENSG00000207428	RNU6-95P	RNA, U6 small nuclear 95, pseudogene [Source:HGNC Symbol;Acc:HGNC:47058]	-0.12		-0.12
RNA-SEQ-HUHTP24-136	5	ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]	0.82		0.82
RNA-SEQ-HUHTP24-136	5	ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	0.48		0.48
RNA-SEQ-HUHTP24-136	5	ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]	0.44		0.44
RNA-SEQ-HUHTP24-136	5	ENSG00000173930	SLCO4C1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	0.28		0.28
RNA-SEQ-HUHTP24-136	5	ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]	0.18		0.18
RNA-SEQ-HUHTP24-137	5	ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	-0.25		-0.25
RNA-SEQ-HUHTP24-137	5	ENSG00000252996	RNU6-1315P	RNA, U6 small nuclear 1315, pseudogene [Source:HGNC Symbol;Acc:HGNC:48278]	-0.29		-0.29
RNA-SEQ-HUHTP24-137	5	ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	0.05		0.05
RNA-SEQ-HUHTP24-137	5	ENSG00000207003	RNU6-611P	RNA, U6 small nuclear 611, pseudogene [Source:HGNC Symbol;Acc:HGNC:47574]	-0.28		-0.28

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC CYT	Log2 ER
				serine	incorporator	bol	[Source:HGNC Symbol;Acc:HGNC:18825]				
RNA-SEQ-HUHTP24-137	5	ENSG00000164300	SERINC5					5			
RNA-SEQ-HUHTP24-138	4	ENSG00000202137							-2.75	-2.75	
RNA-SEQ-HUHTP24-138	4	ENSG00000202306							-1.93	-1.93	
RNA-SEQ-HUHTP24-138	4	ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6	[Source:HGNC Symbol;Acc:HGNC:6846]				-1.02	-1.02	
RNA-SEQ-HUHTP24-138	4	ENSG00000189298	ZKSCAN3	zinc finger with KRAB and SCAN domains 3	[Source:HGNC Symbol;Acc:HGNC:13853]				-1.55	-1.55	
RNA-SEQ-HUHTP24-139	6	ENSG00000223478							-0.31	-0.31	
RNA-SEQ-HUHTP24-139	6	ENSG00000111328	CDK2AP1	cyclin dependent kinase 2 associated protein 1	[Source:HGNC Symbol;Acc:HGNC:14002]				-0.42	-0.42	
RNA-SEQ-HUHTP24-139	6	ENSG00000245848	CEBPA	CCAAT enhancer binding protein alpha	[Source:HGNC Symbol;Acc:HGNC:1833]				-0.37	-0.37	
RNA-SEQ-HUHTP24-139	6	ENSG00000137825	ITPKA	inositol-trisphosphate 3-kinase A	[Source:HGNC Symbol;Acc:HGNC:6178]				-0.27	-0.27	
RNA-SEQ-HUHTP24-139	6	ENSG00000213574	LDHAP5	lactate dehydrogenase A pseudogene 5	[Source:HGNC Symbol;Acc:HGNC:6540]				-1.07	-1.07	
RNA-SEQ-HUHTP24-139	6	ENSG00000137497	NUMA1	nuclear mitotic apparatus protein 1	[Source:HGNC Symbol;Acc:HGNC:8059]				-0.42	-0.42	
RNA-SEQ-HUHTP24-140	2	ENSG00000225531		MMRP19 pseudogene					-0.84	-0.84	
RNA-SEQ-HUHTP24-140	2	ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene	[Source:HGNC Symbol;Acc:HGNC:46748]				-3.11	-3.11	
RNA-SEQ-HUHTP24-141	2	ENSG00000248473	LINC01962	long intergenic non-protein coding RNA 1962	[Source:HGNC Symbol;Acc:HGNC:52787]				-0.48	-0.48	
RNA-SEQ-HUHTP24-141	2	ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1	[Source:HGNC Symbol;Acc:HGNC:10133]				-0.14	-0.14	
RNA-SEQ-HUHTP24-142	2	ENSG00000121350	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1	[Source:HGNC Symbol;Acc:HGNC:26162]				0.31	0.31	
RNA-SEQ-HUHTP24-142	2	ENSG00000275090	RN7SL296P	RNA, 7SL, cytoplasmic 296, pseudogene	[Source:HGNC Symbol;Acc:HGNC:46312]				0.09	0.09	
RNA-SEQ-HUHTP24-143	7	ENSG00000259020		prothymosin, alpha (PTMA) pseudogene					-1.72	-1.72	
RNA-SEQ-HUHTP24-143	7	ENSG00000223668	EEF1A1P24	eukaryotic translation elongation factor 1 alpha 1 pseudogene 24	[Source:HGNC Symbol;Acc:HGNC:37897]				-0.77	-0.77	
RNA-SEQ-HUHTP24-143	7	ENSG00000103707	MTFMT	mitochondrial methionyl-tRNA formyltransferase	[Source:HGNC Symbol;Acc:HGNC:29666]				-0.63	-0.63	
RNA-SEQ-HUHTP24-143	7	ENSG00000242060	RPS3AP49	ribosomal protein S3a pseudogene 49	[Source:HGNC Symbol;Acc:HGNC:36810]				-2.35	-2.35	
RNA-SEQ-HUHTP24-143	7	ENSG00000240087	RPSAP12	ribosomal protein SA pseudogene 12	[Source:HGNC Symbol;Acc:HGNC:6504]				-2.70	-2.70	
RNA-SEQ-HUHTP24-143	7	ENSG00000226855	RPSAP17	ribosomal protein SA pseudogene 17	[Source:HGNC Symbol;Acc:HGNC:35707]				-2.18	-2.18	
RNA-SEQ-HUHTP24-143	7	ENSG00000254827	SLC22A18AS	solute carrier family 22 member 18 antisense	[Source:HGNC Symbol;Acc:HGNC:10965]				-1.11	-1.11	
RNA-SEQ-HUHTP24-144	5	ENSG00000279738		novel transcript, sense overlapping to EIF3L					-0.52	-0.52	
RNA-SEQ-HUHTP24-144	5	ENSG00000165376	CLDN2	claudin 2	[Source:HGNC Symbol;Acc:HGNC:2041]				-0.37	-0.37	
RNA-SEQ-HUHTP24-144	5	ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4	[Source:HGNC Symbol;Acc:HGNC:10128]				-0.88	-0.88	
RNA-SEQ-HUHTP24-144	5	ENSG00000107957	SH3PXD2A	SH3 and PX domains 2A	[Source:HGNC Symbol;Acc:HGNC:23664]				-0.05	-0.05	
RNA-SEQ-HUHTP24-144	5	ENSG00000128294	TPST2	tyrosylprotein sulfotransferase 2	[Source:HGNC Symbol;Acc:HGNC:12021]				-0.51	-0.51	
RNA-SEQ-HUHTP24-145	4	ENSG00000278898		TEC					0.25	0.25	
RNA-SEQ-HUHTP24-145	4	ENSG00000238825	RNU1-13P	RNA, U1 small nuclear 13, pseudogene	[Source:HGNC Symbol;Acc:HGNC:10138]				0.54	0.54	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP24-145	4	ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	0.48	0.48
RNA-SEQ-HUHTP24-145	4	ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]	0.12	0.12
RNA-SEQ-HUHTP24-146	4	ENSG00000196526	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24017]	-0.73	-0.73
RNA-SEQ-HUHTP24-146	4	ENSG00000282100	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene [Source:HGNC Symbol;Acc:HGNC:32538]	-0.34	-0.34
RNA-SEQ-HUHTP24-146	4	ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	-0.43	-0.43
RNA-SEQ-HUHTP24-146	4	ENSG00000239224	RN7SL546P	RNA, 7SL, cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]	-1.71	-1.71

Table 15: Co-expressed gene clusters (RNA-Seq, Huh7, 24h PI)

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-001	2	ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	4.41	4.41
RNA-SEQ-HUHTP40-001	2	ENSG00000140105	WARS	tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:12729]	2.31	2.31
RNA-SEQ-HUHTP40-002	2	ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	3.19	3.19
RNA-SEQ-HUHTP40-002	2	ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	3.38	3.38
RNA-SEQ-HUHTP40-003	2	ENSG00000072364	AFF4	AF4/FMR2 family member 4 [Source:HGNC Symbol;Acc:HGNC:17869]	1.99	1.99
RNA-SEQ-HUHTP40-003	2	ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	3.59	3.59
RNA-SEQ-HUHTP40-004	2	ENSG00000283162		STRA6-like (Stra6) pseudogene	3.63	3.63
RNA-SEQ-HUHTP40-004	2	ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]	4.40	4.40
RNA-SEQ-HUHTP40-005	2	ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]	4.62	4.62
RNA-SEQ-HUHTP40-005	2	ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	4.43	4.43
RNA-SEQ-HUHTP40-006	2	ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	3.88	3.88
RNA-SEQ-HUHTP40-006	2	ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	2.74	2.74
RNA-SEQ-HUHTP40-007	2	ENSG00000164695	CHMP4C	charged multivesicular body protein 4C [Source:HGNC Symbol;Acc:HGNC:30599]	2.17	2.17
RNA-SEQ-HUHTP40-007	2	ENSG00000207322	RNU1-89P	RNA, U1 small nuclear 89, pseudogene [Source:HGNC Symbol;Acc:HGNC:48431]	1.97	1.97
RNA-SEQ-HUHTP40-008	2	ENSG00000185896	LAMP1	lysosomal associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:6499]	1.14	1.14
RNA-SEQ-HUHTP40-008	2	ENSG00000090530	P3H2	prolyl 3-hydroxylase 2 [Source:HGNC Symbol;Acc:HGNC:19317]	1.89	1.89
RNA-SEQ-HUHTP40-009	2	ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	3.06	3.06
RNA-SEQ-HUHTP40-009	2	ENSG00000115306	SPTBN1	spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:11275]	2.07	2.07
RNA-SEQ-HUHTP40-010	2	ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	3.91	3.91
RNA-SEQ-HUHTP40-010	2	ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	7.76	7.76
RNA-SEQ-HUHTP40-011	2	ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	3.62	3.62

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-011	2	ENSG00000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like [Source:HGNC Symbol;Acc:HGNC:15797]	2.58	2.58
RNA-SEQ-HUHTP40-012	2	ENSG00000103042	SLC38A7	solute carrier family 38 member 7 [Source:HGNC Symbol;Acc:HGNC:25582]	1.92	1.92
RNA-SEQ-HUHTP40-012	2	ENSG00000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	5.34	5.34
RNA-SEQ-HUHTP40-013	2	ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	4.59	4.59
RNA-SEQ-HUHTP40-013	2	ENSG00000106105	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:4162]	2.52	2.52
RNA-SEQ-HUHTP40-014	2	ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	3.80	3.80
RNA-SEQ-HUHTP40-014	2	ENSG00000152439	ZNF773	zinc finger protein 773 [Source:HGNC Symbol;Acc:HGNC:30487]	3.15	3.15
RNA-SEQ-HUHTP40-015	2	ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	3.29	3.29
RNA-SEQ-HUHTP40-015	2	ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	3.08	3.08
RNA-SEQ-HUHTP40-016	2	ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	5.26	5.26
RNA-SEQ-HUHTP40-016	2	ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]	3.17	3.17
RNA-SEQ-HUHTP40-017	2	ENSG00000088038	CNOT3	CCR4-NOT transcription complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:7879]	1.92	1.92
RNA-SEQ-HUHTP40-017	2	ENSG00000136936	XPA	XPA, DNA damage recognition and repair factor [Source:HGNC Symbol;Acc:HGNC:12814]	1.92	1.92
RNA-SEQ-HUHTP40-018	2	ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	6.58	6.58
RNA-SEQ-HUHTP40-018	2	ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	2.96	2.96
RNA-SEQ-HUHTP40-019	2	ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	3.87	3.87
RNA-SEQ-HUHTP40-019	2	ENSG00000142089	IFITM3	interferon induced transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:5414]	2.81	2.81
RNA-SEQ-HUHTP40-020	4	ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	2.65	2.65
RNA-SEQ-HUHTP40-020	4	ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	3.61	3.61
RNA-SEQ-HUHTP40-020	4	ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	4.37	4.37
RNA-SEQ-HUHTP40-020	4	ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	3.86	3.86
RNA-SEQ-HUHTP40-021	2	ENSG00000105321	CCDC9	coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:HGNC:24560]	1.82	1.82
RNA-SEQ-HUHTP40-021	2	ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]	3.17	3.17
RNA-SEQ-HUHTP40-022	2	ENSG00000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	1.95	1.95
RNA-SEQ-HUHTP40-022	2	ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	6.16	6.16
RNA-SEQ-HUHTP40-023	3	ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	2.46	2.46
RNA-SEQ-HUHTP40-023	3	ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	8.39	8.39
RNA-SEQ-HUHTP40-023	3	ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	2.91	2.91
RNA-SEQ-HUHTP40-024	2	ENSG00000104312	RIPK2	receptor interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:10020]	2.03	2.03
RNA-SEQ-HUHTP40-024	2	ENSG00000124067	SLC12A4	solute carrier family 12 member 4 [Source:HGNC Symbol;Acc:HGNC:10913]	2.52	2.52
RNA-SEQ-HUHTP40-025	2	ENSG00000262001	DLGAP1-AS2	DLGAP1 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:28146]	3.69	3.69

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-025	2	ENSG00000131871	SELENOS	selenoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]	3.02	3.02
RNA-SEQ-HUHTP40-026	2	ENSG00000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]	2.58	2.58
RNA-SEQ-HUHTP40-026	2	ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	4.83	4.83
RNA-SEQ-HUHTP40-027	2	ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	2.84	2.84
RNA-SEQ-HUHTP40-027	2	ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	4.28	4.28
RNA-SEQ-HUHTP40-028	3	ENSG00000247903		novel transcript, antisense to TM7SF3	-2.62	-2.62
RNA-SEQ-HUHTP40-028	3	ENSG00000179460	EEF1A1P27	eukaryotic translation elongation factor 1 alpha 1 pseudogene 27 [Source:HGNC Symbol;Acc:HGNC:37900]	-2.45	-2.45
RNA-SEQ-HUHTP40-028	3	ENSG00000237913	FTLP19	ferritin light chain pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:37969]	-1.68	-1.68
RNA-SEQ-HUHTP40-029	3	ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	4.29	4.29
RNA-SEQ-HUHTP40-029	3	ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]	3.14	3.14
RNA-SEQ-HUHTP40-029	3	ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	2.41	2.41
RNA-SEQ-HUHTP40-030	5	ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]	2.33	2.33
RNA-SEQ-HUHTP40-030	5	ENSG00000104957	CCDC130	coiled-coil domain containing 130 [Source:HGNC Symbol;Acc:HGNC:28118]	2.01	2.01
RNA-SEQ-HUHTP40-030	5	ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	4.27	4.27
RNA-SEQ-HUHTP40-030	5	ENSG00000179406	LINC00174	long intergenic non-protein coding RNA 174 [Source:HGNC Symbol;Acc:HGNC:27788]	2.91	2.91
RNA-SEQ-HUHTP40-030	5	ENSG00000198718	TOGARAM1	TOG array regulator of axonemal microtubules 1 [Source:HGNC Symbol;Acc:HGNC:19959]	1.83	1.83
RNA-SEQ-HUHTP40-031	2	ENSG00000259078	PTBP1P	polypyrimidine tract binding protein 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:20030]	1.44	1.44
RNA-SEQ-HUHTP40-031	2	ENSG00000065526	SPEN	spen family transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:17575]	1.87	1.87
RNA-SEQ-HUHTP40-032	2	ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]	3.24	3.24
RNA-SEQ-HUHTP40-032	2	ENSG00000118263	KLF7	Krueppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	2.59	2.59
RNA-SEQ-HUHTP40-033	2	ENSG00000182326	C1S	complement C1s [Source:HGNC Symbol;Acc:HGNC:1247]	1.88	1.88
RNA-SEQ-HUHTP40-033	2	ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	1.74	1.74
RNA-SEQ-HUHTP40-034	4	ENSG00000165121		kinesin family member 27 (KIF27) pseudogene	3.39	3.39
RNA-SEQ-HUHTP40-034	4	ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	3.73	3.73
RNA-SEQ-HUHTP40-034	4	ENSG00000173812	EIF1	eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:HGNC:3249]	2.06	2.06
RNA-SEQ-HUHTP40-034	4	ENSG00000119777	TMEM214	transmembrane protein 214 [Source:HGNC Symbol;Acc:HGNC:25983]	1.60	1.60
RNA-SEQ-HUHTP40-035	2	ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	3.07	3.07
RNA-SEQ-HUHTP40-035	2	ENSG00000201910	RNU1-140P	RNA, U1 small nuclear 140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48482]	2.55	2.55
RNA-SEQ-HUHTP40-036	2	ENSG00000181004	BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:HGNC:26648]	2.59	2.59
RNA-SEQ-HUHTP40-036	2	ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]	5.74	5.74
RNA-SEQ-HUHTP40-037	4	ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	6.28	6.28

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-037	4	ENSG00000168488	ATXN2L	ataxin 2 like [Source:HGNC Symbol;Acc:HGNC:31326]	2.12	2.12
RNA-SEQ-HUHTP40-037	4	ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	3.53	3.53
RNA-SEQ-HUHTP40-037	4	ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	5.51	5.51
RNA-SEQ-HUHTP40-038	2	ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	3.47	3.47
RNA-SEQ-HUHTP40-038	2	ENSG00000165861	ZFYVE1	zinc finger FYVE-type containing 1 [Source:HGNC Symbol;Acc:HGNC:13180]	1.90	1.90
RNA-SEQ-HUHTP40-039	2	ENSG00000163251	FZD5	frizzled class receptor 5 [Source:HGNC Symbol;Acc:HGNC:4043]	1.83	1.83
RNA-SEQ-HUHTP40-039	2	ENSG00000136868	SLC31A1	solute carrier family 31 member 1 [Source:HGNC Symbol;Acc:HGNC:11016]	1.26	1.26
RNA-SEQ-HUHTP40-040	2	ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	4.36	4.36
RNA-SEQ-HUHTP40-040	2	ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	5.32	5.32
RNA-SEQ-HUHTP40-041	2	ENSG00000138688	KIAA1109	KIAA1109 [Source:HGNC Symbol;Acc:HGNC:26953]	1.38	1.38
RNA-SEQ-HUHTP40-041	2	ENSG00000127528	KLF2	Kruppel like factor 2 [Source:HGNC Symbol;Acc:HGNC:6347]	2.01	2.01
RNA-SEQ-HUHTP40-042	2	ENSG00000187288	CIDEc	cell death inducing DFFA like effector c [Source:HGNC Symbol;Acc:HGNC:24229]	-1.74	-1.74
RNA-SEQ-HUHTP40-042	2	ENSG00000259479	SORD2P	sorbitol dehydrogenase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:49919]	-1.73	-1.73
RNA-SEQ-HUHTP40-043	5	ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	4.43	4.43
RNA-SEQ-HUHTP40-043	5	ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	3.89	3.89
RNA-SEQ-HUHTP40-043	5	ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	3.78	3.78
RNA-SEQ-HUHTP40-043	5	ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	4.34	4.34
RNA-SEQ-HUHTP40-043	5	ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	4.54	4.54
RNA-SEQ-HUHTP40-044	6	ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	3.10	3.10
RNA-SEQ-HUHTP40-044	6	ENSG00000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	4.18	4.18
RNA-SEQ-HUHTP40-044	6	ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	5.23	5.23
RNA-SEQ-HUHTP40-044	6	ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	7.03	7.03
RNA-SEQ-HUHTP40-044	6	ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	2.82	2.82
RNA-SEQ-HUHTP40-044	6	ENSG00000156639	ZFAND3	zinc finger AN1-type containing 3 [Source:HGNC Symbol;Acc:HGNC:18019]	2.90	2.90
RNA-SEQ-HUHTP40-045	2	ENSG0000011132	APBA3	amyloid beta precursor protein binding family A member 3 [Source:HGNC Symbol;Acc:HGNC:580]	2.11	2.11
RNA-SEQ-HUHTP40-045	2	ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	2.97	2.97
RNA-SEQ-HUHTP40-046	2	ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	4.45	4.45
RNA-SEQ-HUHTP40-046	2	ENSG00000151025	GPR158	G protein-coupled receptor 158 [Source:HGNC Symbol;Acc:HGNC:23689]	2.99	2.99
RNA-SEQ-HUHTP40-047	2	ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	3.94	3.94
RNA-SEQ-HUHTP40-047	2	ENSG00000168016	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:29011]	3.22	3.22
RNA-SEQ-HUHTP40-048	2	ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]	2.40	2.40

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-048	2	ENSG00000163703	CRELD1	cysteine rich with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:14630]	2.55	2.55
RNA-SEQ-HUHTP40-049	2	ENSG00000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]	4.76	4.76
RNA-SEQ-HUHTP40-049	2	ENSG00000167981	ZNF597	zinc finger protein 597 [Source:HGNC Symbol;Acc:HGNC:26573]	2.28	2.28
RNA-SEQ-HUHTP40-050	3	ENSG00000253616		novel transcript	2.88	2.88
RNA-SEQ-HUHTP40-050	3	ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]	2.37	2.37
RNA-SEQ-HUHTP40-050	3	ENSG00000248049	UBA6-AS1	UBA6 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49083]	2.26	2.26
RNA-SEQ-HUHTP40-051	2	ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	2.88	2.88
RNA-SEQ-HUHTP40-051	2	ENSG00000205155	PSENEN	presenilin enhancer, gamma-secretase subunit [Source:HGNC Symbol;Acc:HGNC:30100]	2.34	2.34
RNA-SEQ-HUHTP40-052	2	ENSG00000117523	PRRC2C	proline rich coiled-coil 2C [Source:HGNC Symbol;Acc:HGNC:24903]	1.75	1.75
RNA-SEQ-HUHTP40-052	2	ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	2.14	2.14
RNA-SEQ-HUHTP40-053	2	ENSG00000184371	CSF1	colony stimulating factor 1 [Source:HGNC Symbol;Acc:HGNC:2432]	3.61	3.61
RNA-SEQ-HUHTP40-053	2	ENSG00000234745	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932]	3.48	3.48
RNA-SEQ-HUHTP40-054	5	ENSG00000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]	2.27	2.27
RNA-SEQ-HUHTP40-054	5	ENSG00000204592	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:HGNC:4962]	4.45	4.45
RNA-SEQ-HUHTP40-054	5	ENSG00000154305	MIA3	MIA SH3 domain ER export factor 3 [Source:HGNC Symbol;Acc:HGNC:24008]	1.04	1.04
RNA-SEQ-HUHTP40-054	5	ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	2.03	2.03
RNA-SEQ-HUHTP40-054	5	ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	3.77	3.77
RNA-SEQ-HUHTP40-055	2	ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	4.54	4.54
RNA-SEQ-HUHTP40-055	2	ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]	4.46	4.46
RNA-SEQ-HUHTP40-056	3	ENSG00000189060	H1F0	H1 histone family member 0 [Source:HGNC Symbol;Acc:HGNC:4714]	4.51	4.51
RNA-SEQ-HUHTP40-056	3	ENSG00000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	2.70	2.70
RNA-SEQ-HUHTP40-056	3	ENSG00000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]	1.82	1.82
RNA-SEQ-HUHTP40-057	2	ENSG00000073464	CLCN4	chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc:HGNC:2022]	2.54	2.54
RNA-SEQ-HUHTP40-057	2	ENSG00000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]	2.73	2.73
RNA-SEQ-HUHTP40-058	3	ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	2.41	2.41
RNA-SEQ-HUHTP40-058	3	ENSG00000163482	STK36	serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC:17209]	2.86	2.86
RNA-SEQ-HUHTP40-058	3	ENSG00000055483	USP36	ubiquitin specific peptidase 36 [Source:HGNC Symbol;Acc:HGNC:20062]	2.31	2.31
RNA-SEQ-HUHTP40-059	2	ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	2.25	2.25
RNA-SEQ-HUHTP40-059	2	ENSG00000090581	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:HGNC Symbol;Acc:HGNC:23026]	1.00	1.00
RNA-SEQ-HUHTP40-060	2	ENSG00000137821	LRRC49	leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:HGNC:25965]	4.15	4.15

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC
								CYT	ER	
RNA-SEQ-HUHTP40-060	2	ENSG00000181458	TMEM45A	transmembrane protein 45A [Source:HGNC Symbol;Acc:HGNC:25480]				Sym-	1.36	1.36
RNA-SEQ-HUHTP40-061	2	ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]				Sym-	-2.75	-2.75
RNA-SEQ-HUHTP40-061	2	ENSG00000096092	TMEM14A	transmembrane protein 14A [Source:HGNC Symbol;Acc:HGNC:21076]				Sym-	-1.50	-1.50
RNA-SEQ-HUHTP40-062	3	ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]				Sym-	5.87	5.87
RNA-SEQ-HUHTP40-062	3	ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]					4.96	4.96
RNA-SEQ-HUHTP40-062	3	ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]					8.64	8.64
RNA-SEQ-HUHTP40-063	4	ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]				Sym-	1.94	1.94
RNA-SEQ-HUHTP40-063	4	ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]				Sym-	2.09	2.09
RNA-SEQ-HUHTP40-063	4	ENSG00000169432	SCN9A	sodium voltage-gated channel alpha subunit 9 [Source:HGNC Symbol;Acc:HGNC:10597]					1.72	1.72
RNA-SEQ-HUHTP40-063	4	ENSG00000065060	UHRF1BP1	UHRF1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21216]				Sym-	2.24	2.24
RNA-SEQ-HUHTP40-064	2	ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]				Sym-	5.77	5.77
RNA-SEQ-HUHTP40-064	2	ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]					4.66	4.66
RNA-SEQ-HUHTP40-065	3	ENSG00000178607	ERN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:HGNC:3449]					2.57	2.57
RNA-SEQ-HUHTP40-065	3	ENSG00000109320	NFKB1	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]					2.43	2.43
RNA-SEQ-HUHTP40-065	3	ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta [Source:HGNC Symbol;Acc:HGNC:9310]					2.11	2.11
RNA-SEQ-HUHTP40-066	3	ENSG00000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]					3.97	3.97
RNA-SEQ-HUHTP40-066	3	ENSG00000104856	RELB	RELB proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9956]					4.49	4.49
RNA-SEQ-HUHTP40-066	3	ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]					3.24	3.24
RNA-SEQ-HUHTP40-067	3	ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]					4.13	4.13
RNA-SEQ-HUHTP40-067	3	ENSG00000110218	PANX1	pannexin 1 [Source:HGNC Symbol;Acc:HGNC:8599]					1.51	1.51
RNA-SEQ-HUHTP40-067	3	ENSG00000197818	SLC9A8	solute carrier family 9 member A8 [Source:HGNC Symbol;Acc:HGNC:20728]					2.40	2.40
RNA-SEQ-HUHTP40-068	3	ENSG00000125319	C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:HGNC:28460]					1.95	1.95
RNA-SEQ-HUHTP40-068	3	ENSG00000104381	GDAP1	ganglioside induced differentiation associated protein 1 [Source:HGNC Symbol;Acc:HGNC:15968]					1.82	1.82
RNA-SEQ-HUHTP40-068	3	ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]					4.48	4.48
RNA-SEQ-HUHTP40-069	2	ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]					8.07	8.07
RNA-SEQ-HUHTP40-069	2	ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]					4.39	4.39
RNA-SEQ-HUHTP40-070	2	ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]					2.58	2.58
RNA-SEQ-HUHTP40-070	2	ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]					3.71	3.71
RNA-SEQ-HUHTP40-071	5	ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]					2.48	2.48
RNA-SEQ-HUHTP40-071	5	ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]					1.84	1.84
RNA-SEQ-HUHTP40-071	5	ENSG00000006459	KDM7A	lysine demethylase 7A [Source:HGNC Symbol;Acc:HGNC:22224]					1.76	1.76

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description			Log2 FC	Log2 FC
							CYT	ER
RNA-SEQ-HUHTP40-071	5	ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	Sym-	6.08	6.08	
RNA-SEQ-HUHTP40-071	5	ENSG00000085377	PREP	prolyl endopeptidase [Source:HGNC Symbol;Acc:HGNC:9358]	Sym-	1.72	1.72	
RNA-SEQ-HUHTP40-072	2	ENSG00000115902	SLC1A4	solute carrier family 1 member 4 [Source:HGNC Symbol;Acc:HGNC:10942]	Sym-	4.18	4.18	
RNA-SEQ-HUHTP40-072	2	ENSG00000277149	TYW1B	tRNA- γ W synthesizing protein 1 homolog B [Source:HGNC Symbol;Acc:HGNC:33908]		2.59	2.59	
RNA-SEQ-HUHTP40-073	2	ENSG00000136048	DRAM1	DNA damage regulated autophagy modulator 1 [Source:HGNC Symbol;Acc:HGNC:25645]		2.23	2.23	
RNA-SEQ-HUHTP40-073	2	ENSG00000148841	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]		3.86	3.86	
RNA-SEQ-HUHTP40-074	4	ENSG00000068912	ERLEC1	endoplasmic reticulum lectin 1 [Source:HGNC Symbol;Acc:HGNC:25222]	Sym-	1.12	1.12	
RNA-SEQ-HUHTP40-074	4	ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]		2.97	2.97	
RNA-SEQ-HUHTP40-074	4	ENSG00000150687	PRSS23	serine protease 23 [Source:HGNC Symbol;Acc:HGNC:14370]		1.90	1.90	
RNA-SEQ-HUHTP40-074	4	ENSG00000198832	SELENOM	seleoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]		2.42	2.42	
RNA-SEQ-HUHTP40-075	2	ENSG00000162344	FGF19	fibroblast growth factor 19 [Source:HGNC Symbol;Acc:HGNC:3675]	Sym-	2.57	2.57	
RNA-SEQ-HUHTP40-075	2	ENSG00000111897	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:HGNC:13464]	Sym-	1.19	1.19	
RNA-SEQ-HUHTP40-076	4	ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]		3.25	3.25	
RNA-SEQ-HUHTP40-076	4	ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	Sym-	4.85	4.85	
RNA-SEQ-HUHTP40-076	4	ENSG00000092969	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]	Sym-	2.55	2.55	
RNA-SEQ-HUHTP40-076	4	ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]		5.32	5.32	
RNA-SEQ-HUHTP40-077	2	ENSG00000141384	TAF4B	TATA-box binding protein associated factor 4b [Source:HGNC Symbol;Acc:HGNC:11538]		3.06	3.06	
RNA-SEQ-HUHTP40-077	2	ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]		3.58	3.58	
RNA-SEQ-HUHTP40-078	3	ENSG00000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]		2.37	2.37	
RNA-SEQ-HUHTP40-078	3	ENSG00000064601	CTSA	cathepsin A [Source:HGNC Symbol;Acc:HGNC:9251]		1.12	1.12	
RNA-SEQ-HUHTP40-078	3	ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]		3.06	3.06	
RNA-SEQ-HUHTP40-079	2	ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]		3.03	3.03	
RNA-SEQ-HUHTP40-079	2	ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]		3.56	3.56	
RNA-SEQ-HUHTP40-080	3	ENSG00000115307	AUP1	AUP1, lipid droplet regulating VLDL assembly factor [Source:HGNC Symbol;Acc:HGNC:891]		1.73	1.73	
RNA-SEQ-HUHTP40-080	3	ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]		4.43	4.43	
RNA-SEQ-HUHTP40-080	3	ENSG00000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]		2.94	2.94	
RNA-SEQ-HUHTP40-081	2	ENSG00000154265	ABCA5	ATP binding cassette subfamily A member 5 [Source:HGNC Symbol;Acc:HGNC:35]		1.50	1.50	
RNA-SEQ-HUHTP40-081	2	ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	Sym-	1.25	1.25	
RNA-SEQ-HUHTP40-082	2	ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]		-2.27	-2.27	
RNA-SEQ-HUHTP40-082	2	ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]		-2.53	-2.53	
RNA-SEQ-HUHTP40-083	2	ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]		1.25	1.25	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description							Log2 FC	Log2 FC
										CYT	ER	
RNA-SEQ-HUHTP40-083	2	ENSG00000234678	ELF3-AS1	ELF3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40211]						Sym-	1.77	1.77
RNA-SEQ-HUHTP40-084	3	ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]						Sym-	2.66	2.66
RNA-SEQ-HUHTP40-084	3	ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]						Sym-	2.32	2.32
RNA-SEQ-HUHTP40-084	3	ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]						Sym-	3.13	3.13
RNA-SEQ-HUHTP40-085	2	ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]						Sym-	4.22	4.22
RNA-SEQ-HUHTP40-085	2	ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]							3.04	3.04
RNA-SEQ-HUHTP40-086	3	ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]							1.83	1.83
RNA-SEQ-HUHTP40-086	3	ENSG00000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]							2.98	2.98
RNA-SEQ-HUHTP40-086	3	ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]							2.39	2.39
RNA-SEQ-HUHTP40-087	2	ENSG00000079385	CEACAM1	carcinoembryonic antigen related cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:1814]							2.44	2.44
RNA-SEQ-HUHTP40-087	2	ENSG00000101194	SLC17A9	solute carrier family 17 member 9 [Source:HGNC Symbol;Acc:HGNC:16192]							1.73	1.73
RNA-SEQ-HUHTP40-088	2	ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]							3.87	3.87
RNA-SEQ-HUHTP40-088	2	ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]							2.16	2.16
RNA-SEQ-HUHTP40-089	2	ENSG00000240997	RN7SL183P	RNA, 7SL, cytoplasmic 183, pseudogene [Source:HGNC Symbol;Acc:HGNC:46199]							-1.27	-1.27
RNA-SEQ-HUHTP40-089	2	ENSG00000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]							-1.46	-1.46
RNA-SEQ-HUHTP40-090	2	ENSG0000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]							1.99	1.99
RNA-SEQ-HUHTP40-090	2	ENSG00000113504	SLC12A7	solute carrier family 12 member 7 [Source:HGNC Symbol;Acc:HGNC:10915]							2.65	2.65
RNA-SEQ-HUHTP40-091	3	ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]							2.98	2.98
RNA-SEQ-HUHTP40-091	3	ENSG00000163435	ELF3	E74 like ETS transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:3318]							2.22	2.22
RNA-SEQ-HUHTP40-091	3	ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]							5.16	5.16
RNA-SEQ-HUHTP40-092	2	ENSG00000090020	SLC9A1	solute carrier family 9 member A1 [Source:HGNC Symbol;Acc:HGNC:11071]							2.78	2.78
RNA-SEQ-HUHTP40-092	2	ENSG00000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]							1.31	1.31
RNA-SEQ-HUHTP40-093	2	ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]							2.34	2.34
RNA-SEQ-HUHTP40-093	2	ENSG00000102158	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:HGNC:28880]							1.71	1.71
RNA-SEQ-HUHTP40-094	2	ENSG00000081087	OSTM1	osteoclastogenesis associated transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:21652]							0.96	0.96
RNA-SEQ-HUHTP40-094	2	ENSG00000207349	RNVU1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]							1.53	1.53
RNA-SEQ-HUHTP40-095	2	ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]							4.37	4.37
RNA-SEQ-HUHTP40-095	2	ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]							2.29	2.29
RNA-SEQ-HUHTP40-096	3	ENSG00000184270	HIST2H2AB	histone cluster 2 H2A family member b [Source:HGNC Symbol;Acc:HGNC:20508]							1.30	1.30
RNA-SEQ-HUHTP40-096	3	ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]							2.12	2.12
RNA-SEQ-HUHTP40-096	3	ENSG00000164548	TRA2A	transformer 2 alpha homolog [Source:HGNC Symbol;Acc:HGNC:16645]							1.78	1.78

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-097	2	ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]	3.49	3.49
RNA-SEQ-HUHTP40-097	2	ENSG00000120889	TNFRSF10B	TNF receptor superfamily member 10b [Source:HGNC Symbol;Acc:HGNC:11905]	2.64	2.64
RNA-SEQ-HUHTP40-098	2	ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]	2.97	2.97
RNA-SEQ-HUHTP40-098	2	ENSG00000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]	1.56	1.56
RNA-SEQ-HUHTP40-099	2	ENSG00000169155	ZBTB43	zinc finger and BTB domain containing 43 [Source:HGNC Symbol;Acc:HGNC:17908]	1.93	1.93
RNA-SEQ-HUHTP40-099	2	ENSG00000145908	ZNF300	zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13091]	3.57	3.57
RNA-SEQ-HUHTP40-100	3	ENSG00000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	3.26	3.26
RNA-SEQ-HUHTP40-100	3	ENSG00000145623	OSMR	oncostatin M receptor [Source:HGNC Symbol;Acc:HGNC:8507]	1.84	1.84
RNA-SEQ-HUHTP40-100	3	ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]	2.21	2.21
RNA-SEQ-HUHTP40-101	4	ENSG00000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]	1.66	1.66
RNA-SEQ-HUHTP40-101	4	ENSG00000105699	LSR	lipolysis stimulated lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:29572]	1.78	1.78
RNA-SEQ-HUHTP40-101	4	ENSG00000222376	RN7SKP152	RNA, 7SK small nuclear pseudogene 152 [Source:HGNC Symbol;Acc:HGNC:45876]	2.47	2.47
RNA-SEQ-HUHTP40-101	4	ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	2.74	2.74
RNA-SEQ-HUHTP40-102	5	ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	5.93	5.93
RNA-SEQ-HUHTP40-102	5	ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	5.20	5.20
RNA-SEQ-HUHTP40-102	5	ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	3.52	3.52
RNA-SEQ-HUHTP40-102	5	ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	2.87	2.87
RNA-SEQ-HUHTP40-102	5	ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	3.00	3.00
RNA-SEQ-HUHTP40-103	2	ENSG00000025796	SEC63	SEC63 homolog, protein translocation regulator [Source:HGNC Symbol;Acc:HGNC:21082]	1.33	1.33
RNA-SEQ-HUHTP40-103	2	ENSG00000113407	TARS	threonyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:11572]	1.78	1.78
RNA-SEQ-HUHTP40-104	2	ENSG00000221968	FADS3	fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:3576]	2.33	2.33
RNA-SEQ-HUHTP40-104	2	ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	3.18	3.18
RNA-SEQ-HUHTP40-105	2	ENSG00000137135	ARHGEF39	Rho guanine nucleotide exchange factor 39 [Source:HGNC Symbol;Acc:HGNC:25909]	-2.30	-2.30
RNA-SEQ-HUHTP40-105	2	ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]	-1.90	-1.90
RNA-SEQ-HUHTP40-106	4	ENSG00000040531	CTNS	cystinosin, lysosomal cystine transporter [Source:HGNC Symbol;Acc:HGNC:2518]	2.00	2.00
RNA-SEQ-HUHTP40-106	4	ENSG00000134285	FKBP11	FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:18624]	1.97	1.97
RNA-SEQ-HUHTP40-106	4	ENSG00000101294	HM13	histocompatibility minor 13 [Source:HGNC Symbol;Acc:HGNC:16435]	1.83	1.83
RNA-SEQ-HUHTP40-106	4	ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	5.07	5.07
RNA-SEQ-HUHTP40-107	2	ENSG00000246130				3.16
RNA-SEQ-HUHTP40-107	2	ENSG00000159348	CYB5R1	cytochrome b5 reductase 1 [Source:HGNC Symbol;Acc:HGNC:13397]	1.06	1.06
RNA-SEQ-HUHTP40-108	2	ENSG00000164142	FAM160A1	family with sequence similarity 160 member A1 [Source:HGNC Symbol;Acc:HGNC:34237]	2.35	2.35

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-108	2	ENSG00000115641	FHL2	four and a half LIM domains 2 [Source:HGNC Symbol;Acc:HGNC:3703]	1.92	1.92
RNA-SEQ-HUHTP40-109	2	ENSG00000136770	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1 [Source:HGNC Symbol;Acc:HGNC:20090]	1.42	1.42
RNA-SEQ-HUHTP40-109	2	ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	1.93	1.93
RNA-SEQ-HUHTP40-110	2	ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	3.53	3.53
RNA-SEQ-HUHTP40-110	2	ENSG00000105281	SLC1A5	solute carrier family 1 member 5 [Source:HGNC Symbol;Acc:HGNC:10943]	2.33	2.33
RNA-SEQ-HUHTP40-111	3	ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]	4.18	4.18
RNA-SEQ-HUHTP40-111	3	ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	3.51	3.51
RNA-SEQ-HUHTP40-111	3	ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	4.44	4.44
RNA-SEQ-HUHTP40-112	2	ENSG0000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]	2.42	2.42
RNA-SEQ-HUHTP40-112	2	ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]	1.58	1.58
RNA-SEQ-HUHTP40-113	4	ENSG00000170017	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:400]	0.85	0.85
RNA-SEQ-HUHTP40-113	4	ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	5.00	5.00
RNA-SEQ-HUHTP40-113	4	ENSG00000167004	PDIA3	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	2.56	2.56
RNA-SEQ-HUHTP40-113	4	ENSG00000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]	3.80	3.80
RNA-SEQ-HUHTP40-114	2	ENSG00000165030	NFIL3	nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:7787]	2.38	2.38
RNA-SEQ-HUHTP40-114	2	ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	3.56	3.56
RNA-SEQ-HUHTP40-115	2	ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	3.62	3.62
RNA-SEQ-HUHTP40-115	2	ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	1.80	1.80
RNA-SEQ-HUHTP40-116	2	ENSG00000135334	AKIRIN2	akirin 2 [Source:HGNC Symbol;Acc:HGNC:21407]	1.78	1.78
RNA-SEQ-HUHTP40-116	2	ENSG00000100532	CGRRF1	cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:HGNC:15528]	2.23	2.23
RNA-SEQ-HUHTP40-117	3	ENSG00000122644	ARL4A	ADP ribosylation factor like GTPase 4A [Source:HGNC Symbol;Acc:HGNC:695]	2.03	2.03
RNA-SEQ-HUHTP40-117	3	ENSG00000141756	FKBP10	FK506 binding protein 10 [Source:HGNC Symbol;Acc:HGNC:18169]	1.78	1.78
RNA-SEQ-HUHTP40-117	3	ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	5.16	5.16
RNA-SEQ-HUHTP40-118	2	ENSG00000256043	CTSO	cathepsin O [Source:HGNC Symbol;Acc:HGNC:2542]	-0.40	-0.40
RNA-SEQ-HUHTP40-118	2	ENSG00000258645	HSPE1P2	heat shock protein family E (Hsp10) member 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:20052]	-1.21	-1.21
RNA-SEQ-HUHTP40-119	5	ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]	2.20	2.20
RNA-SEQ-HUHTP40-119	5	ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	3.62	3.62
RNA-SEQ-HUHTP40-119	5	ENSG00000185133	INPP5J	inositol polyphosphate-5-phosphatase J [Source:HGNC Symbol;Acc:HGNC:8956]	3.34	3.34
RNA-SEQ-HUHTP40-119	5	ENSG00000080031	PTPRH	protein tyrosine phosphatase, receptor type H [Source:HGNC Symbol;Acc:HGNC:9672]	1.82	1.82
RNA-SEQ-HUHTP40-119	5	ENSG00000170631	ZNF16	zinc finger protein 16 [Source:HGNC Symbol;Acc:HGNC:12947]	1.84	1.84
RNA-SEQ-HUHTP40-120	4	ENSG00000150782	IL18	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	2.01	2.01

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log ₂ FC	Log ₂ FC CYT ER
				oxysterol binding protein [Source:HGNC Symbol;Acc:HGNC:8503]	PMS1 homolog 2, mismatch repair system component pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:9128]	PR/SET domain 2 [Source:HGNC Symbol;Acc:HGNC:9347]				
RNA-SEQ-HUHTP40-120	4	ENSG00000110048	OSBP	oxysterol binding protein [Source:HGNC Symbol;Acc:HGNC:8503]	PMS1 homolog 2, mismatch repair system component pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:9128]	PR/SET domain 2 [Source:HGNC Symbol;Acc:HGNC:9347]			2.01	2.01
RNA-SEQ-HUHTP40-120	4	ENSG00000127957	PMS2P3						1.24	1.24
RNA-SEQ-HUHTP40-120	4	ENSG00000116731	PRDM2							
RNA-SEQ-HUHTP40-121	3	ENSG00000085563	ABCB1	ATP binding cassette subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:40]					2.12	2.12
RNA-SEQ-HUHTP40-121	3	ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]					4.10	4.10
RNA-SEQ-HUHTP40-121	3	ENSG00000172732	MUS81	MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:29814]					1.82	1.82
RNA-SEQ-HUHTP40-122	2	ENSG00000139641	ESYT1	extended synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:29534]					2.35	2.35
RNA-SEQ-HUHTP40-122	2	ENSG00000178209	PLEC	plectin [Source:HGNC Symbol;Acc:HGNC:9069]					2.05	2.05
RNA-SEQ-HUHTP40-123	2	ENSG00000074695	LMAN1	lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:6631]					1.31	1.31
RNA-SEQ-HUHTP40-123	2	ENSG00000179818	PCBP1-AS1	PCBP1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:42948]					1.77	1.77
RNA-SEQ-HUHTP40-124	2	ENSG00000033100	CHPF2	chondroitin polymerizing factor 2 [Source:HGNC Symbol;Acc:HGNC:29270]					2.52	2.52
RNA-SEQ-HUHTP40-124	2	ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]					4.20	4.20
RNA-SEQ-HUHTP40-125	6	ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]					3.81	3.81
RNA-SEQ-HUHTP40-125	6	ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]					3.13	3.13
RNA-SEQ-HUHTP40-125	6	ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]					8.33	8.33
RNA-SEQ-HUHTP40-125	6	ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]					3.30	3.30
RNA-SEQ-HUHTP40-125	6	ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]					1.93	1.93
RNA-SEQ-HUHTP40-125	6	ENSG00000204070	SYS1	SYS1, golgi trafficking protein [Source:HGNC Symbol;Acc:HGNC:16162]					1.88	1.88
RNA-SEQ-HUHTP40-126	3	ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]					3.46	3.46
RNA-SEQ-HUHTP40-126	3	ENSG00000204869	IGFL4	IGF like family member 4 [Source:HGNC Symbol;Acc:HGNC:32931]					4.34	4.34
RNA-SEQ-HUHTP40-126	3	ENSG00000178467	P4HTM	prolyl 4-hydroxylase, transmembrane [Source:HGNC Symbol;Acc:HGNC:28858]					3.16	3.16
RNA-SEQ-HUHTP40-127	2	ENSG00000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]					1.56	1.56
RNA-SEQ-HUHTP40-127	2	ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]					2.11	2.11
RNA-SEQ-HUHTP40-128	3	ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]					4.78	4.78
RNA-SEQ-HUHTP40-128	3	ENSG00000172216	CEBPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]					3.46	3.46
RNA-SEQ-HUHTP40-128	3	ENSG00000100219	XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:HGNC:12801]					2.12	2.12
RNA-SEQ-HUHTP40-129	2	ENSG00000136068	FLNB	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]					2.30	2.30
RNA-SEQ-HUHTP40-129	2	ENSG00000067167	TRAM1	translocation associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:20568]					1.51	1.51
RNA-SEQ-HUHTP40-130	6	ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]					8.57	8.57
RNA-SEQ-HUHTP40-130	6	ENSG00000145050	MANF	mesencephalic astrocyte derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:15461]					3.22	3.22
RNA-SEQ-HUHTP40-130	6	ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]					2.54	2.54

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-130	6	ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	4.21	4.21
RNA-SEQ-HUHTP40-130	6	ENSG00000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]	2.81	2.81
RNA-SEQ-HUHTP40-130	6	ENSG00000137207	YIPF3	Yip1 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:21023]	1.52	1.52
RNA-SEQ-HUHTP40-131	3	ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]	2.77	2.77
RNA-SEQ-HUHTP40-131	3	ENSG00000135677	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4422]	2.42	2.42
RNA-SEQ-HUHTP40-131	3	ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	3.23	3.23
RNA-SEQ-HUHTP40-132	2	ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]	2.55	2.55
RNA-SEQ-HUHTP40-132	2	ENSG00000124155	PIGT	phosphatidylinositol glycan anchor biosynthesis class T [Source:HGNC Symbol;Acc:HGNC:14938]	1.32	1.32
RNA-SEQ-HUHTP40-133	2	ENSG00000197081	IGF2R	insulin like growth factor 2 receptor [Source:HGNC Symbol;Acc:HGNC:5467]	1.76	1.76
RNA-SEQ-HUHTP40-133	2	ENSG00000119537	KDSR	3-ketodihydroinosine reductase [Source:HGNC Symbol;Acc:HGNC:4021]	2.96	2.96
RNA-SEQ-HUHTP40-134	2	ENSG00000111266	DUSP16	dual specificity phosphatase 16 [Source:HGNC Symbol;Acc:HGNC:17909]	1.81	1.81
RNA-SEQ-HUHTP40-134	2	ENSG00000148143	ZNF462	zinc finger protein 462 [Source:HGNC Symbol;Acc:HGNC:21684]	2.02	2.02
RNA-SEQ-HUHTP40-135	2	ENSG00000169851	PCDH7	protocadherin 7 [Source:HGNC Symbol;Acc:HGNC:8659]	1.35	1.35
RNA-SEQ-HUHTP40-135	2	ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]	0.98	0.98
RNA-SEQ-HUHTP40-136	2	ENSG00000100592	DAAM1	dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:HGNC:18142]	1.87	1.87
RNA-SEQ-HUHTP40-136	2	ENSG00000121350	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1 [Source:HGNC Symbol;Acc:HGNC:26162]	1.73	1.73
RNA-SEQ-HUHTP40-137	2	ENSG00000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]	1.73	1.73
RNA-SEQ-HUHTP40-137	2	ENSG00000238554	RNU1-88P	RNA, U1 small nuclear 88, pseudogene [Source:HGNC Symbol;Acc:HGNC:48430]	1.69	1.69
RNA-SEQ-HUHTP40-138	2	ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]	1.45	1.45
RNA-SEQ-HUHTP40-138	2	ENSG00000180879	SSR4	signal sequence receptor subunit 4 [Source:HGNC Symbol;Acc:HGNC:11326]	1.50	1.50
RNA-SEQ-HUHTP40-139	2	ENSG00000232368	FTLP2	ferritin light chain pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:4001]	-1.82	-1.82
RNA-SEQ-HUHTP40-139	2	ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]	-2.30	-2.30
RNA-SEQ-HUHTP40-140	6	ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	3.91	3.91
RNA-SEQ-HUHTP40-140	6	ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	7.32	7.32
RNA-SEQ-HUHTP40-140	6	ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]	2.52	2.52
RNA-SEQ-HUHTP40-140	6	ENSG0000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]	2.97	2.97
RNA-SEQ-HUHTP40-140	6	ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]	3.14	3.14
RNA-SEQ-HUHTP40-140	6	ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	2.30	2.30
RNA-SEQ-HUHTP40-141	2	ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	3.39	3.39
RNA-SEQ-HUHTP40-141	2	ENSG00000079215	SLC1A3	solute carrier family 1 member 3 [Source:HGNC Symbol;Acc:HGNC:10941]	3.85	3.85
RNA-SEQ-HUHTP40-142	2	ENSG00000038002	AGA	aspartyl/glycosaminidase [Source:HGNC Symbol;Acc:HGNC:318]	3.36	3.36

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2		
					FC	CYT	ER
RNA-SEQ-HUHTP40-142	2	ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]	2.35		2.35
RNA-SEQ-HUHTP40-143	2	ENSG00000116857	TMEM9	transmembrane protein 9 [Source:HGNC Symbol;Acc:HGNC:18823]	0.86		0.86
RNA-SEQ-HUHTP40-143	2	ENSG00000128016	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:HGNC:12862]	2.49		2.49
RNA-SEQ-HUHTP40-144	3	ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]	1.34		1.34
RNA-SEQ-HUHTP40-144	3	ENSG00000070404	FSTL3	follistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	2.61		2.61
RNA-SEQ-HUHTP40-144	3	ENSG00000164266	SPINK1	serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11244]	2.27		2.27
RNA-SEQ-HUHTP40-145	3	ENSG00000112414	ADGRG6	adhesion G protein-coupled receptor G6 [Source:HGNC Symbol;Acc:HGNC:13841]	1.55		1.55
RNA-SEQ-HUHTP40-145	3	ENSG00000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]	1.35		1.35
RNA-SEQ-HUHTP40-145	3	ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]	1.80		1.80
RNA-SEQ-HUHTP40-146	2	ENSG00000228439	TSTD3	thiosulfate sulfurtransferase like domain containing 3 [Source:HGNC Symbol;Acc:HGNC:40910]	1.22		1.22
RNA-SEQ-HUHTP40-146	2	ENSG00000119048	UBE2B	ubiquitin conjugating enzyme E2 B [Source:HGNC Symbol;Acc:HGNC:12473]	1.49		1.49
RNA-SEQ-HUHTP40-147	2	ENSG00000164733	CTSB	cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]	1.24		1.24
RNA-SEQ-HUHTP40-147	2	ENSG00000145014	TMEM44	transmembrane protein 44 [Source:HGNC Symbol;Acc:HGNC:25120]	3.14		3.14
RNA-SEQ-HUHTP40-148	3	ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]	3.64		3.64
RNA-SEQ-HUHTP40-148	3	ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	2.27		2.27
RNA-SEQ-HUHTP40-148	3	ENSG00000197044	ZNF441	zinc finger protein 441 [Source:HGNC Symbol;Acc:HGNC:20875]	1.65		1.65
RNA-SEQ-HUHTP40-149	3	ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]	3.54		3.54
RNA-SEQ-HUHTP40-149	3	ENSG00000162614	NEXN	nexilin F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:29557]	1.73		1.73
RNA-SEQ-HUHTP40-149	3	ENSG00000169564	PCBP1	poly(rC) binding protein 1 [Source:HGNC Symbol;Acc:HGNC:8647]	1.67		1.67
RNA-SEQ-HUHTP40-150	2	ENSG00000145730	PAM	peptidyl glycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	1.33		1.33
RNA-SEQ-HUHTP40-150	2	ENSG00000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]	1.43		1.43
RNA-SEQ-HUHTP40-151	2	ENSG00000074842	MYDGF	myeloid derived growth factor [Source:HGNC Symbol;Acc:HGNC:16948]	1.43		1.43
RNA-SEQ-HUHTP40-151	2	ENSG00000124783	SSR1	signal sequence receptor subunit 1 [Source:HGNC Symbol;Acc:HGNC:11323]	1.01		1.01
RNA-SEQ-HUHTP40-152	3	ENSG00000169087	HSPBAP1	HSPB1 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16389]	1.95		1.95
RNA-SEQ-HUHTP40-152	3	ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]	2.75		2.75
RNA-SEQ-HUHTP40-152	3	ENSG00000167645	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein [Source:HGNC Symbol;Acc:HGNC:30511]	1.28		1.28
RNA-SEQ-HUHTP40-153	4	ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	3.50		3.50
RNA-SEQ-HUHTP40-153	4	ENSG00000138119	MYOF	myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]	1.86		1.86
RNA-SEQ-HUHTP40-153	4	ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	2.46		2.46
RNA-SEQ-HUHTP40-153	4	ENSG00000165782	PIP4P1	phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:19299]	1.88		1.88
RNA-SEQ-HUHTP40-154	2	ENSG00000044574	HSPA5	heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238]	3.26		3.26

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
RNA-SEQ-HUHTP40-154	2	ENSG00000120519	SLC10A7	solute carrier family 10 member 7 [Source:HGNC Symbol;Acc:HGNC:23088]	2.00	2.00	
RNA-SEQ-HUHTP40-155	2	ENSG00000244331		ribosomal protein, large, P2 (RPLP2) pseudogene	-1.38	-1.38	
RNA-SEQ-HUHTP40-155	2	ENSG00000198088	NUP62CL	nucleoporin 62 C-terminal like [Source:HGNC Symbol;Acc:HGNC:25960]	-1.07	-1.07	
RNA-SEQ-HUHTP40-156	2	ENSG00000186205	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:HGNC:26189]	-1.33	-1.33	
RNA-SEQ-HUHTP40-156	2	ENSG00000265486	RN7SL518P	RNA, 7SL, cytoplasmic 518, pseudogene [Source:HGNC Symbol;Acc:HGNC:46534]	-0.72	-0.72	
RNA-SEQ-HUHTP40-157	2	ENSG00000158158	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4 [Source:HGNC Symbol;Acc:HGNC:105]	1.87	1.87	
RNA-SEQ-HUHTP40-157	2	ENSG00000206702	RNU1-11P	RNA, U1 small nuclear 11, pseudogene [Source:HGNC Symbol;Acc:HGNC:10137]	1.63	1.63	
RNA-SEQ-HUHTP40-158	4	ENSG00000114019	AMOTL2	angiominotin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	3.14	3.14	
RNA-SEQ-HUHTP40-158	4	ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	2.56	2.56	
RNA-SEQ-HUHTP40-158	4	ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	4.46	4.46	
RNA-SEQ-HUHTP40-158	4	ENSG00000134294	SLC38A2	solute carrier family 38 member 2 [Source:HGNC Symbol;Acc:HGNC:13448]	1.72	1.72	
RNA-SEQ-HUHTP40-159	2	ENSG00000198727	MT-CYB	mitochondrially encoded cytochrome b [Source:HGNC Symbol;Acc:HGNC:7427]	4.36	4.36	
RNA-SEQ-HUHTP40-159	2	ENSG00000225630	MTND2P28	MT-ND2 pseudogene 28 [Source:HGNC Symbol;Acc:HGNC:42129]	3.22	3.22	
RNA-SEQ-HUHTP40-160	5	ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]	2.41	2.41	
RNA-SEQ-HUHTP40-160	5	ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	4.83	4.83	
RNA-SEQ-HUHTP40-160	5	ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	2.72	2.72	
RNA-SEQ-HUHTP40-160	5	ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]	2.11	2.11	
RNA-SEQ-HUHTP40-160	5	ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	3.04	3.04	
RNA-SEQ-HUHTP40-161	3	ENSG00000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]	1.66	1.66	
RNA-SEQ-HUHTP40-161	3	ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	3.61	3.61	
RNA-SEQ-HUHTP40-161	3	ENSG00000128590	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC Symbol;Acc:HGNC:6968]	3.00	3.00	
RNA-SEQ-HUHTP40-162	2	ENSG00000135052	GOLM1	golgi membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:15451]	1.33	1.33	
RNA-SEQ-HUHTP40-162	2	ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	4.32	4.32	
RNA-SEQ-HUHTP40-163	8	ENSG00000145246	ATP10D	ATPase phospholipid transporting 10D (putative) [Source:HGNC Symbol;Acc:HGNC:13549]	2.48	2.48	
RNA-SEQ-HUHTP40-163	8	ENSG0000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]	3.18	3.18	
RNA-SEQ-HUHTP40-163	8	ENSG00000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	2.74	2.74	
RNA-SEQ-HUHTP40-163	8	ENSG00000153132	CLGN	calmezin [Source:HGNC Symbol;Acc:HGNC:2060]	2.29	2.29	
RNA-SEQ-HUHTP40-163	8	ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]	2.79	2.79	
RNA-SEQ-HUHTP40-163	8	ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]	2.18	2.18	
RNA-SEQ-HUHTP40-163	8	ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	4.77	4.77	
RNA-SEQ-HUHTP40-163	8	ENSG00000121064	SCPEP1	serine carboxypeptidase 1 [Source:HGNC Symbol;Acc:HGNC:29507]	2.18	2.18	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-164	2	ENSG00000207200	RNU6-45P	RNA, U6 small nuclear 45, pseudogene [Source:HGNC Symbol;Acc:HGNC:34289]	1.29	1.29
RNA-SEQ-HUHTP40-164	2	ENSG00000125304	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11865]	1.66	1.66
RNA-SEQ-HUHTP40-165	4	ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	3.42	3.42
RNA-SEQ-HUHTP40-165	4	ENSG00000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]	1.79	1.79
RNA-SEQ-HUHTP40-165	4	ENSG00000155304	HSPA13	heat shock protein family A (Hsp70) member 13 [Source:HGNC Symbol;Acc:HGNC:11375]	2.97	2.97
RNA-SEQ-HUHTP40-165	4	ENSG00000135506	OS9	OS9, endoplasmic reticulum lectin [Source:HGNC Symbol;Acc:HGNC:16994]	1.59	1.59
RNA-SEQ-HUHTP40-166	3	ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	4.50	4.50
RNA-SEQ-HUHTP40-166	3	ENSG00000118257	NRP2	neuropilin 2 [Source:HGNC Symbol;Acc:HGNC:8005]	3.14	3.14
RNA-SEQ-HUHTP40-166	3	ENSG00000128567	PODXL	podocalyxin like [Source:HGNC Symbol;Acc:HGNC:9171]	3.35	3.35
RNA-SEQ-HUHTP40-167	3	ENSG00000108588	CCDC47	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]	1.30	1.30
RNA-SEQ-HUHTP40-167	3	ENSG00000118523	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:2500]	2.26	2.26
RNA-SEQ-HUHTP40-167	3	ENSG00000204859	ZBTB48	zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:HGNC:4930]	2.52	2.52
RNA-SEQ-HUHTP40-168	4	ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	2.15	2.15
RNA-SEQ-HUHTP40-168	4	ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	4.21	4.21
RNA-SEQ-HUHTP40-168	4	ENSG00000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	2.17	2.17
RNA-SEQ-HUHTP40-168	4	ENSG00000156858	PRR14	proline rich 14 [Source:HGNC Symbol;Acc:HGNC:28458]	3.32	3.32
RNA-SEQ-HUHTP40-169	2	ENSG00000005486	RHBDD2	rhomboid domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23082]	1.40	1.40
RNA-SEQ-HUHTP40-169	2	ENSG00000213593	TMX2	thioredoxin related transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:30739]	1.26	1.26
RNA-SEQ-HUHTP40-170	2	ENSG00000137880	GCHFR	GTP cyclohydrolase I feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]	-2.39	-2.39
RNA-SEQ-HUHTP40-170	2	ENSG00000165389	SPTSSA	serine palmitoyltransferase small subunit A [Source:HGNC Symbol;Acc:HGNC:20361]	-1.08	-1.08
RNA-SEQ-HUHTP40-171	8	ENSG00000126775	ATG14	autophagy related 14 [Source:HGNC Symbol;Acc:HGNC:19962]	2.12	2.12
RNA-SEQ-HUHTP40-171	8	ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	4.56	4.56
RNA-SEQ-HUHTP40-171	8	ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	2.34	2.34
RNA-SEQ-HUHTP40-171	8	ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	5.43	5.43
RNA-SEQ-HUHTP40-171	8	ENSG00000144837	PLA1A	phospholipase A1 member A [Source:HGNC Symbol;Acc:HGNC:17661]	1.71	1.71
RNA-SEQ-HUHTP40-171	8	ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	4.57	4.57
RNA-SEQ-HUHTP40-171	8	ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	2.09	2.09
RNA-SEQ-HUHTP40-171	8	ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]	3.03	3.03
RNA-SEQ-HUHTP40-172	6	ENSG0000008311	AASS	aminoacidate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]	1.66	1.66
RNA-SEQ-HUHTP40-172	6	ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	3.66	3.66
RNA-SEQ-HUHTP40-172	6	ENSG00000258890	CEP95	centrosomal protein 95 [Source:HGNC Symbol;Acc:HGNC:25141]	2.09	2.09

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC
								CYT	ER	
RNA-SEQ-HUHTP40-172	6	ENSG00000112977	DAP	death associated protein [Source:HGNC Symbol;Acc:HGNC:2672]					1.26	1.26
RNA-SEQ-HUHTP40-172	6	ENSG00000168386	FILIP1L	filamin A interacting protein 1 like [Source:HGNC Symbol;Acc:HGNC:24589]					2.88	2.88
RNA-SEQ-HUHTP40-172	6	ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]					3.73	3.73
RNA-SEQ-HUHTP40-173	4	ENSG00000278099							2.05	2.05
RNA-SEQ-HUHTP40-173	4	ENSG00000213614	HEXA	hexosaminidase subunit alpha [Source:HGNC Symbol;Acc:HGNC:4878]					1.05	1.05
RNA-SEQ-HUHTP40-173	4	ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]					3.11	3.11
RNA-SEQ-HUHTP40-173	4	ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]					2.17	2.17
RNA-SEQ-HUHTP40-174	2	ENSG00000122861	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:HGNC:9052]					-1.07	-1.07
RNA-SEQ-HUHTP40-174	2	ENSG00000244256	RN7SL130P	RNA, 7SL, cytoplasmic 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:46146]					-0.96	-0.96
RNA-SEQ-HUHTP40-175	4	ENSG00000138639	ARHGAP24	Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:HGNC:25361]					2.21	2.21
RNA-SEQ-HUHTP40-175	4	ENSG00000171988	JMJD1C	jumonji domain containing 1C [Source:HGNC Symbol;Acc:HGNC:12313]					1.99	1.99
RNA-SEQ-HUHTP40-175	4	ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]					3.30	3.30
RNA-SEQ-HUHTP40-175	4	ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]					2.14	2.14
RNA-SEQ-HUHTP40-176	2	ENSG00000272476		novel transcript, antisense to SEC63					1.92	1.92
RNA-SEQ-HUHTP40-176	2	ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]					0.86	0.86
RNA-SEQ-HUHTP40-177	2	ENSG00000105726	ATP13A1	ATPase 13A1 [Source:HGNC Symbol;Acc:HGNC:24215]					2.22	2.22
RNA-SEQ-HUHTP40-177	2	ENSG00000151176	PLBD2	phospholipase B domain containing 2 [Source:HGNC Symbol;Acc:HGNC:27283]					1.62	1.62
RNA-SEQ-HUHTP40-178	3	ENSG00000244038	DDOST	dolichyl-diphosphooligosaccharide–protein glycosyl-transferase non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:2728]					1.92	1.92
RNA-SEQ-HUHTP40-178	3	ENSG00000158615	PPP1R15B	protein phosphatase 1 regulatory subunit 15B [Source:HGNC Symbol;Acc:HGNC:14951]					2.26	2.26
RNA-SEQ-HUHTP40-178	3	ENSG00000103257	SLC7A5	solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063]					2.34	2.34
RNA-SEQ-HUHTP40-179	5	ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]					3.43	3.43
RNA-SEQ-HUHTP40-179	5	ENSG0000013588	GPRC5A	G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836]					3.29	3.29
RNA-SEQ-HUHTP40-179	5	ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]					2.65	2.65
RNA-SEQ-HUHTP40-179	5	ENSG00000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]					2.35	2.35
RNA-SEQ-HUHTP40-179	5	ENSG00000086598	TMED2	transmembrane p24 trafficking protein 2 [Source:HGNC Symbol;Acc:HGNC:16996]					1.22	1.22
RNA-SEQ-HUHTP40-180	3	ENSG00000164850	GPER1	G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:4485]					-2.05	-2.05
RNA-SEQ-HUHTP40-180	3	ENSG00000139292	LGR5	leucine rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:HGNC:4504]					-1.29	-1.29
RNA-SEQ-HUHTP40-180	3	ENSG00000243488	RN7SL337P	RNA, 7SL, cytoplasmic 337, pseudogene [Source:HGNC Symbol;Acc:HGNC:46353]					-1.24	-1.24
RNA-SEQ-HUHTP40-181	2	ENSG00000279673		TEC					-2.17	-2.17
RNA-SEQ-HUHTP40-181	2	ENSG0000010810	FYN	FYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4037]					-2.30	-2.30

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>		
					FC	CYT	FC
							ER
RNA-SEQ-HUHTP40-182	2	ENSG00000164190	NIPBL	NIPBL, cohesin loading factor [Source:HGNC Symbol;Acc:HGNC:28862]	1.56		1.56
RNA-SEQ-HUHTP40-182	2	ENSG00000221914	PPP2R2A	protein phosphatase 2 regulatory subunit Balpha [Source:HGNC Symbol;Acc:HGNC:9304]	1.73		1.73
RNA-SEQ-HUHTP40-183	3	ENSG00000169752	NRG4	neuregulin 4 [Source:HGNC Symbol;Acc:HGNC:29862]	-2.01		-2.01
RNA-SEQ-HUHTP40-183	3	ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]	-1.83		-1.83
RNA-SEQ-HUHTP40-183	3	ENSG00000117586	TNFSF4	TNF superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:11934]	-2.80		-2.80
RNA-SEQ-HUHTP40-184	2	ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]	-1.30		-1.30
RNA-SEQ-HUHTP40-184	2	ENSG00000112394	SLC16A10	solute carrier family 16 member 10 [Source:HGNC Symbol;Acc:HGNC:17027]	-1.11		-1.11
RNA-SEQ-HUHTP40-185	3	ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	3.78		3.78
RNA-SEQ-HUHTP40-185	3	ENSG00000168564	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:HGNC:24325]	1.37		1.37
RNA-SEQ-HUHTP40-185	3	ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	3.69		3.69
RNA-SEQ-HUHTP40-186	2	ENSG00000214019		RNA-binding region (RNP1, RRM) containing 2 (RNPC2) pseudogene	2.08		2.08
RNA-SEQ-HUHTP40-186	2	ENSG00000128683	GAD1	glutamate decarboxylase 1 [Source:HGNC Symbol;Acc:HGNC:4092]	2.71		2.71
RNA-SEQ-HUHTP40-187	3	ENSG00000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	2.73		2.73
RNA-SEQ-HUHTP40-187	3	ENSG00000265641	MIR3929	microRNA 3929 [Source:HGNC Symbol;Acc:HGNC:38945]	4.22		4.22
RNA-SEQ-HUHTP40-187	3	ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]	1.97		1.97
RNA-SEQ-HUHTP40-188	2	ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]	2.39		2.39
RNA-SEQ-HUHTP40-188	2	ENSG00000170876	TMEM43	transmembrane protein 43 [Source:HGNC Symbol;Acc:HGNC:28472]	1.90		1.90
RNA-SEQ-HUHTP40-189	5	ENSG00000148926	ADM	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]	1.89		1.89
RNA-SEQ-HUHTP40-189	5	ENSG00000109572	CLCN3	chloride voltage-gated channel 3 [Source:HGNC Symbol;Acc:HGNC:2021]	1.36		1.36
RNA-SEQ-HUHTP40-189	5	ENSG00000023318	ERP44	endoplasmic reticulum protein 44 [Source:HGNC Symbol;Acc:HGNC:18311]	1.99		1.99
RNA-SEQ-HUHTP40-189	5	ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]	1.90		1.90
RNA-SEQ-HUHTP40-189	5	ENSG00000083817	ZNF416	zinc finger protein 416 [Source:HGNC Symbol;Acc:HGNC:20645]	2.24		2.24
RNA-SEQ-HUHTP40-190	4	ENSG00000115137	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27 [Source:HGNC Symbol;Acc:HGNC:30290]	2.10		2.10
RNA-SEQ-HUHTP40-190	4	ENSG00000131507	NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:17592]	0.99		0.99
RNA-SEQ-HUHTP40-190	4	ENSG00000130202	NECTIN2	nectin cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:9707]	2.02		2.02
RNA-SEQ-HUHTP40-190	4	ENSG00000095209	TMEM38B	transmembrane protein 38B [Source:HGNC Symbol;Acc:HGNC:25535]	1.60		1.60
RNA-SEQ-HUHTP40-191	2	ENSG00000198712	MT-CO2	mitochondrially encoded cytochrome c oxidase II [Source:HGNC Symbol;Acc:HGNC:7421]	4.18		4.18
RNA-SEQ-HUHTP40-191	2	ENSG00000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	1.65		1.65
RNA-SEQ-HUHTP40-192	3	ENSG00000144857	BOC	BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]	2.71		2.71
RNA-SEQ-HUHTP40-192	3	ENSG00000072682	P4HA2	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547]	1.17		1.17
RNA-SEQ-HUHTP40-192	3	ENSG00000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]	1.54		1.54

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-193	9	ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]	1.71	1.71
RNA-SEQ-HUHTP40-193	9	ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]	3.43	3.43
RNA-SEQ-HUHTP40-193	9	ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]	2.79	2.79
RNA-SEQ-HUHTP40-193	9	ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	4.31	4.31
RNA-SEQ-HUHTP40-193	9	ENSG00000123595	RAB9A	RAB9A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9792]	1.98	1.98
RNA-SEQ-HUHTP40-193	9	ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	2.40	2.40
RNA-SEQ-HUHTP40-193	9	ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	3.89	3.89
RNA-SEQ-HUHTP40-193	9	ENSG00000157837	SPPL3	signal peptide peptidase like 3 [Source:HGNC Symbol;Acc:HGNC:30424]	1.41	1.41
RNA-SEQ-HUHTP40-193	9	ENSG00000168826	ZBTB49	zinc finger and BTB domain containing 49 [Source:HGNC Symbol;Acc:HGNC:19883]	2.24	2.24
RNA-SEQ-HUHTP40-194	5	ENSG00000149428	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]	3.22	3.22
RNA-SEQ-HUHTP40-194	5	ENSG00000148356	LRSAM1	leucine rich repeat and sterile alpha motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25135]	2.08	2.08
RNA-SEQ-HUHTP40-194	5	ENSG00000032444	PNPLA6	patatin like phospholipase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:16268]	1.38	1.38
RNA-SEQ-HUHTP40-194	5	ENSG00000073008	PVR	poliovirus receptor [Source:HGNC Symbol;Acc:HGNC:9705]	2.66	2.66
RNA-SEQ-HUHTP40-194	5	ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	2.88	2.88
RNA-SEQ-HUHTP40-195	2	ENSG00000258102	MAP1LC3B2	microtubule associated protein 1 light chain 3 beta 2 [Source:HGNC Symbol;Acc:HGNC:34390]	3.16	3.16
RNA-SEQ-HUHTP40-195	2	ENSG00000080823	MOK	MOK protein kinase [Source:HGNC Symbol;Acc:HGNC:9833]	1.74	1.74
RNA-SEQ-HUHTP40-196	2	ENSG00000222231	RNU2-54P	RNA, U2 small nuclear 54, pseudogene [Source:HGNC Symbol;Acc:HGNC:48547]	-1.48	-1.48
RNA-SEQ-HUHTP40-196	2	ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]	-1.07	-1.07
RNA-SEQ-HUHTP40-197	3	ENSG00000142675	CNKS1R1	connector enhancer of kinase suppressor of Ras 1 [Source:HGNC Symbol;Acc:HGNC:19700]	2.54	2.54
RNA-SEQ-HUHTP40-197	3	ENSG00000162736	NCSTN	nicastrin [Source:HGNC Symbol;Acc:HGNC:17091]	1.52	1.52
RNA-SEQ-HUHTP40-197	3	ENSG00000101337	TM9SF4	transmembrane 9 superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:30797]	1.25	1.25
RNA-SEQ-HUHTP40-198	3	ENSG00000151632	AKR1C2	aldo-keto reductase family 1 member C2 [Source:HGNC Symbol;Acc:HGNC:385]	-2.23	-2.23
RNA-SEQ-HUHTP40-198	3	ENSG00000101417	PXMP4	peroxisomal membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15920]	-1.60	-1.60
RNA-SEQ-HUHTP40-198	3	ENSG00000207428	RNU6-95P	RNA, U6 small nuclear 95, pseudogene [Source:HGNC Symbol;Acc:HGNC:47058]	-2.10	-2.10
RNA-SEQ-HUHTP40-199	5	ENSG00000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]	2.23	2.23
RNA-SEQ-HUHTP40-199	5	ENSG00000140497	SCAMP2	secretory carrier membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:10564]	1.90	1.90
RNA-SEQ-HUHTP40-199	5	ENSG00000166311	SMPD1	sphingomyelin phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:11120]	2.78	2.78
RNA-SEQ-HUHTP40-199	5	ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	3.08	3.08
RNA-SEQ-HUHTP40-199	5	ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	5.53	5.53
RNA-SEQ-HUHTP40-200	5	ENSG00000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]	2.65	2.65
RNA-SEQ-HUHTP40-200	5	ENSG00000164535	DAGLB	diacylglycerol lipase beta [Source:HGNC Symbol;Acc:HGNC:28923]	2.06	2.06

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
RNA-SEQ-HUHTP40-200	5	ENSG00000134352	IL6ST	interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:6021]	1.37	1.37	
RNA-SEQ-HUHTP40-200	5	ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	3.83	3.83	
RNA-SEQ-HUHTP40-200	5	ENSG00000137501	SYTL2	synaptotagmin like 2 [Source:HGNC Symbol;Acc:HGNC:15585]	1.72	1.72	
RNA-SEQ-HUHTP40-201	3	ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	4.69	4.69	
RNA-SEQ-HUHTP40-201	3	ENSG00000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:4525]	3.09	3.09	
RNA-SEQ-HUHTP40-201	3	ENSG00000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	1.42	1.42	
RNA-SEQ-HUHTP40-202	6	ENSG00000267519		novel transcript	2.23	2.23	
RNA-SEQ-HUHTP40-202	6	ENSG00000124508	BTN2A2	butyrophilin subfamily 2 member A2 [Source:HGNC Symbol;Acc:HGNC:1137]	2.52	2.52	
RNA-SEQ-HUHTP40-202	6	ENSG00000146648	EGFR	epidermal growth factor receptor [Source:HGNC Symbol;Acc:HGNC:3236]	1.31	1.31	
RNA-SEQ-HUHTP40-202	6	ENSG00000176046	NUPR1	nuclear protein 1, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29990]	2.19	2.19	
RNA-SEQ-HUHTP40-202	6	ENSG00000182934	SRPRA	SRP receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:11307]	1.32	1.32	
RNA-SEQ-HUHTP40-202	6	ENSG00000110344	UBE4A	ubiquitination factor E4A [Source:HGNC Symbol;Acc:HGNC:12499]	1.06	1.06	
RNA-SEQ-HUHTP40-203	2	ENSG00000152056	AP1S3	adaptor related protein complex 1 subunit sigma 3 [Source:HGNC Symbol;Acc:HGNC:18971]	-1.29	-1.29	
RNA-SEQ-HUHTP40-203	2	ENSG00000244722	RPSAP29	ribosomal protein SA pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:36680]	-2.83	-2.83	
RNA-SEQ-HUHTP40-204	4	ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]	2.28	2.28	
RNA-SEQ-HUHTP40-204	4	ENSG00000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]	1.98	1.98	
RNA-SEQ-HUHTP40-204	4	ENSG00000147649	MTDH	metadherin [Source:HGNC Symbol;Acc:HGNC:29608]	1.60	1.60	
RNA-SEQ-HUHTP40-204	4	ENSG00000162407	PLPP3	phospholipid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:9229]	2.09	2.09	
RNA-SEQ-HUHTP40-205	2	ENSG00000172059	KLF11	Kruppel like factor 11 [Source:HGNC Symbol;Acc:HGNC:11811]	1.49	1.49	
RNA-SEQ-HUHTP40-205	2	ENSG00000268043	NBPF12	NBPF member 12 [Source:HGNC Symbol;Acc:HGNC:24297]	1.90	1.90	
RNA-SEQ-HUHTP40-206	2	ENSG00000052802	MSMO1	methylsterol monooxygenase 1 [Source:HGNC Symbol;Acc:HGNC:10545]	-0.87	-0.87	
RNA-SEQ-HUHTP40-206	2	ENSG00000138308	PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]	-1.15	-1.15	
RNA-SEQ-HUHTP40-207	2	ENSG00000273559	CWC25	CWC25 spliceosome associated protein homolog [Source:HGNC Symbol;Acc:HGNC:25989]	1.52	1.52	
RNA-SEQ-HUHTP40-207	2	ENSG00000120451	SNX19	sorting nexin 19 [Source:HGNC Symbol;Acc:HGNC:21532]	1.33	1.33	
RNA-SEQ-HUHTP40-208	2	ENSG00000183840	GPR39	G protein-coupled receptor 39 [Source:HGNC Symbol;Acc:HGNC:4496]	-0.28	-0.28	
RNA-SEQ-HUHTP40-208	2	ENSG00000163581	SLC2A2	solute carrier family 2 member 2 [Source:HGNC Symbol;Acc:HGNC:11006]	-0.57	-0.57	
RNA-SEQ-HUHTP40-209	2	ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	2.30	2.30	
RNA-SEQ-HUHTP40-209	2	ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]	2.00	2.00	
RNA-SEQ-HUHTP40-210	2	ENSG00000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]	1.70	1.70	
RNA-SEQ-HUHTP40-210	2	ENSG00000168026	TTC21A	tetratricopeptide repeat domain 21A [Source:HGNC Symbol;Acc:HGNC:30761]	2.87	2.87	
RNA-SEQ-HUHTP40-211	2	ENSG00000182858	ALG12	ALG12, alpha-1,6-mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:19358]	1.62	1.62	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
							ER
RNA-SEQ-HUHTP40-211	2	ENSG00000201183	RNVU1-3	RNA, variant U1 small nuclear 3 [Source:HGNC Symbol;Acc:HGNC:48311]			2.24
RNA-SEQ-HUHTP40-212	2	ENSG00000283414					-2.34
RNA-SEQ-HUHTP40-212	2	ENSG0000005187	ACSM3	acyl-CoA synthetase medium chain family member 3 [Source:HGNC Symbol;Acc:HGNC:10522]			-1.30
RNA-SEQ-HUHTP40-213	2	ENSG00000111666	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:17852]			-1.37
RNA-SEQ-HUHTP40-213	2	ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene [Source:HGNC Symbol;Acc:HGNC:46470]			-0.86
RNA-SEQ-HUHTP40-214	2	ENSG00000207624	MIR194-1	microRNA 194-1 [Source:HGNC Symbol;Acc:HGNC:31564]			0.76
RNA-SEQ-HUHTP40-214	2	ENSG00000116117	PARD3B	par-3 family cell polarity regulator beta [Source:HGNC Symbol;Acc:HGNC:14446]			0.73
RNA-SEQ-HUHTP40-215	3	ENSG00000177697	CD151	CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:HGNC:1630]			1.15
RNA-SEQ-HUHTP40-215	3	ENSG00000202538	RNU4-2	RNA, U4 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10193]			1.84
RNA-SEQ-HUHTP40-215	3	ENSG00000207445	SNORD15B	small nucleolar RNA, C/D box 15B [Source:HGNC Symbol;Acc:HGNC:16649]			1.48
RNA-SEQ-HUHTP40-216	6	ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]			5.16
RNA-SEQ-HUHTP40-216	6	ENSG00000108771	DHX58	DEExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]			5.74
RNA-SEQ-HUHTP40-216	6	ENSG00000164308	ERAP2	endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]			2.62
RNA-SEQ-HUHTP40-216	6	ENSG00000121073	SLC35B1	solute carrier family 35 member B1 [Source:HGNC Symbol;Acc:HGNC:20798]			1.23
RNA-SEQ-HUHTP40-216	6	ENSG00000094975	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:HGNC:1240]			1.73
RNA-SEQ-HUHTP40-216	6	ENSG00000197619	ZNF615	zinc finger protein 615 [Source:HGNC Symbol;Acc:HGNC:24740]			2.38
RNA-SEQ-HUHTP40-217	2	ENSG00000196642	RABL6	RAB, member RAS oncogene family like 6 [Source:HGNC Symbol;Acc:HGNC:24703]			-1.45
RNA-SEQ-HUHTP40-217	2	ENSG00000137834	SMAD6	SMAD family member 6 [Source:HGNC Symbol;Acc:HGNC:6772]			-1.23
RNA-SEQ-HUHTP40-218	3	ENSG00000266469		novel transcript, antisense to MED1			FBXL20 1.71
1.71							
RNA-SEQ-HUHTP40-218	3	ENSG00000229644	NAMPTP1	nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633]			1.89
RNA-SEQ-HUHTP40-218	3	ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]			2.20
RNA-SEQ-HUHTP40-219	2	ENSG00000239748	RN7SL795P	RNA, 7SL, cytoplasmic 795, pseudogene [Source:HGNC Symbol;Acc:HGNC:46811]			-1.66
RNA-SEQ-HUHTP40-219	2	ENSG00000137970	RPL7P9	ribosomal protein L7 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:37028]			-2.16
RNA-SEQ-HUHTP40-220	6	ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]			1.55
RNA-SEQ-HUHTP40-220	6	ENSG00000155660	PDIA4	protein disulfide isomerase family A member 4 [Source:HGNC Symbol;Acc:HGNC:30167]			2.58
RNA-SEQ-HUHTP40-220	6	ENSG00000118596	SLC16A7	solute carrier family 16 member 7 [Source:HGNC Symbol;Acc:HGNC:10928]			1.38
RNA-SEQ-HUHTP40-220	6	ENSG00000112473	SLC39A7	solute carrier family 39 member 7 [Source:HGNC Symbol;Acc:HGNC:4927]			1.56
RNA-SEQ-HUHTP40-220	6	ENSG00000132718	SYT11	synaptotagmin 11 [Source:HGNC Symbol;Acc:HGNC:19239]			3.23
RNA-SEQ-HUHTP40-220	6	ENSG00000248208	WDR45P1	WD repeat domain 45 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:52406]			2.36
RNA-SEQ-HUHTP40-221	2	ENSG00000198786	MT-ND5	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 5 [Source:HGNC Symbol;Acc:HGNC:7461]			3.46

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log ₂ FC	Log ₂ FC
								CYT	ER	
RNA-SEQ-HUHTP40-221	2	ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]					0.71	0.71
RNA-SEQ-HUHTP40-222	2	ENSG00000059769	DNAJC25	DnaJ heat shock protein family (Hsp40) member C25 [Source:HGNC Symbol;Acc:HGNC:34187]					1.37	1.37
RNA-SEQ-HUHTP40-222	2	ENSG00000162687	KCNT2	potassium sodium-activated channel subfamily T member 2 [Source:HGNC Symbol;Acc:HGNC:18866]					2.39	2.39
RNA-SEQ-HUHTP40-223	4	ENSG00000236449		novel transcript, antisense to WIPF1 and CHRNA1					-1.98	-1.98
RNA-SEQ-HUHTP40-223	4	ENSG00000157470	FAM81A	family with sequence similarity 81 member A [Source:HGNC Symbol;Acc:HGNC:28379]					-2.08	-2.08
RNA-SEQ-HUHTP40-223	4	ENSG00000220884	MESTP1	mesoderm specific transcript pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:29660]					-1.95	-1.95
RNA-SEQ-HUHTP40-223	4	ENSG00000196628	TCF4	transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:11634]					-1.18	-1.18
RNA-SEQ-HUHTP40-224	7	ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]					3.48	3.48
RNA-SEQ-HUHTP40-224	7	ENSG00000204520	MICA	MHC class I polypeptide-related sequence A [Source:HGNC Symbol;Acc:HGNC:7090]					3.72	3.72
RNA-SEQ-HUHTP40-224	7	ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]					3.86	3.86
RNA-SEQ-HUHTP40-224	7	ENSG00000171867	PRNP	prion protein [Source:HGNC Symbol;Acc:HGNC:9449]					1.61	1.61
RNA-SEQ-HUHTP40-224	7	ENSG00000183963	SMTN	smoothelin [Source:HGNC Symbol;Acc:HGNC:11126]					1.90	1.90
RNA-SEQ-HUHTP40-224	7	ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]					2.51	2.51
RNA-SEQ-HUHTP40-224	7	ENSG00000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]					2.65	2.65
RNA-SEQ-HUHTP40-225	3	ENSG00000117410	ATP6V0B	ATPase H ⁺ transporting V0 subunit b [Source:HGNC Symbol;Acc:HGNC:861]					1.09	1.09
RNA-SEQ-HUHTP40-225	3	ENSG00000221869	CEBDP	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]					2.49	2.49
RNA-SEQ-HUHTP40-225	3	ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]					1.54	1.54
RNA-SEQ-HUHTP40-226	2	ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]					2.70	2.70
RNA-SEQ-HUHTP40-226	2	ENSG00000166145	SPINT1	serine peptidase inhibitor, Kunitz type 1 [Source:HGNC Symbol;Acc:HGNC:11246]					1.76	1.76
RNA-SEQ-HUHTP40-227	4	ENSG00000118217	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:791]					2.32	2.32
RNA-SEQ-HUHTP40-227	4	ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]					2.65	2.65
RNA-SEQ-HUHTP40-227	4	ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]					1.98	1.98
RNA-SEQ-HUHTP40-227	4	ENSG00000188760	TMEM198	transmembrane protein 198 [Source:HGNC Symbol;Acc:HGNC:33704]					3.31	3.31
RNA-SEQ-HUHTP40-228	7	ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]					1.99	1.99
RNA-SEQ-HUHTP40-228	7	ENSG00000158411	MITD1	microtubule interacting and trafficking domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25207]					1.74	1.74
RNA-SEQ-HUHTP40-228	7	ENSG00000065911	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP ⁺ dependent) 2, methenyltetrahydrofolate cyclohydrolase [Source:HGNC Symbol;Acc:HGNC:7434]					1.84	1.84
RNA-SEQ-HUHTP40-228	7	ENSG00000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]					2.69	2.69
RNA-SEQ-HUHTP40-228	7	ENSG00000164815	ORC5	origin recognition complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:8491]					1.03	1.03
RNA-SEQ-HUHTP40-228	7	ENSG00000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]					2.75	2.75
RNA-SEQ-HUHTP40-228	7	ENSG00000134548	SPX	spexin hormone [Source:HGNC Symbol;Acc:HGNC:28139]					2.13	2.13

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-229	3	ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]	1.79	1.79
RNA-SEQ-HUHTP40-229	3	ENSG0000030582	GRN	granulin precursor [Source:HGNC Symbol;Acc:HGNC:4601]	2.51	2.51
RNA-SEQ-HUHTP40-229	3	ENSG0000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]	2.02	2.02
RNA-SEQ-HUHTP40-230	4	ENSG0000216775			-1.52	-1.52
RNA-SEQ-HUHTP40-230	4	ENSG0000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]	-2.28	-2.28
RNA-SEQ-HUHTP40-230	4	ENSG0000131153	GINS2	GINS complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:24575]	-1.81	-1.81
RNA-SEQ-HUHTP40-230	4	ENSG0000125247	TMT4	transmembrane and tetratricopeptide repeat containing 4 [Source:HGNC Symbol;Acc:HGNC:25904]	-1.56	-1.56
RNA-SEQ-HUHTP40-231	4	ENSG0000149925	ALDOA	aldolase, fructose-bisphosphate A [Source:HGNC Symbol;Acc:HGNC:414]	-0.86	-0.86
RNA-SEQ-HUHTP40-231	4	ENSG0000187942	LDLRAD2	low density lipoprotein receptor class A domain containing 2 [Source:HGNC Symbol;Acc:HGNC:32071]	-1.54	-1.54
RNA-SEQ-HUHTP40-231	4	ENSG0000112818	MEP1A	meprin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]	-1.12	-1.12
RNA-SEQ-HUHTP40-231	4	ENSG0000177350	RPL13AP3	ribosomal protein L13a pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:23539]	-1.00	-1.00
RNA-SEQ-HUHTP40-232	2	ENSG0000169562	GJB1	gap junction protein beta 1 [Source:HGNC Symbol;Acc:HGNC:4283]	-0.77	-0.77
RNA-SEQ-HUHTP40-232	2	ENSG0000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	-1.38	-1.38
RNA-SEQ-HUHTP40-233	3	ENSG0000225200		ribosomal protein S8 (RPS8) pseudogene	-1.24	-1.24
RNA-SEQ-HUHTP40-233	3	ENSG0000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	-1.62	-1.62
RNA-SEQ-HUHTP40-233	3	ENSG0000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]	-1.30	-1.30
RNA-SEQ-HUHTP40-234	3	ENSG0000160298	C21orf58	chromosome 21 open reading frame 58 [Source:HGNC Symbol;Acc:HGNC:1300]	-1.96	-1.96
RNA-SEQ-HUHTP40-234	3	ENSG0000179604	CDC42EP4	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]	-1.03	-1.03
RNA-SEQ-HUHTP40-234	3	ENSG0000103707	MTFMT	mitochondrial methionyl-tRNA formyltransferase [Source:HGNC Symbol;Acc:HGNC:29666]	-1.35	-1.35
RNA-SEQ-HUHTP40-235	5	ENSG0000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]	1.15	1.15
RNA-SEQ-HUHTP40-235	5	ENSG0000185950	IRS2	insulin receptor substrate 2 [Source:HGNC Symbol;Acc:HGNC:6126]	3.15	3.15
RNA-SEQ-HUHTP40-235	5	ENSG0000161638	ITGA5	integrin subunit alpha 5 [Source:HGNC Symbol;Acc:HGNC:6141]	1.60	1.60
RNA-SEQ-HUHTP40-235	5	ENSG0000267541	MTCO2P2	MT-CO2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:25354]	3.20	3.20
RNA-SEQ-HUHTP40-235	5	ENSG0000205903	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:13843]	1.74	1.74
RNA-SEQ-HUHTP40-236	2	ENSG0000200855			-1.67	-1.67
RNA-SEQ-HUHTP40-236	2	ENSG0000111319	SCNN1A	sodium channel epithelial 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:10599]	-1.37	-1.37
RNA-SEQ-HUHTP40-237	2	ENSG0000207207			-3.56	-3.56
RNA-SEQ-HUHTP40-237	2	ENSG0000167081	PBX3	PBX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:8634]	-2.29	-2.29
RNA-SEQ-HUHTP40-238	3	ENSG0000134871	COL4A2	collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203]	-1.50	-1.50
RNA-SEQ-HUHTP40-238	3	ENSG0000229598	PRDX3P1	peroxiredoxin 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39264]	-1.48	-1.48
RNA-SEQ-HUHTP40-238	3	ENSG0000240087	RPSAP12	ribosomal protein SA pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:6504]	-1.67	-1.67

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-239	3	ENSG00000130203	APOE	apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]	1.52	1.52
RNA-SEQ-HUHTP40-239	3	ENSG00000252850	RNU1-117P	RNA, U1 small nuclear 117, pseudogene [Source:HGNC Symbol;Acc:HGNC:48459]	2.30	2.30
RNA-SEQ-HUHTP40-239	3	ENSG00000252577	SCARNA20	small Cajal body-specific RNA 20 [Source:HGNC Symbol;Acc:HGNC:32578]	1.75	1.75
RNA-SEQ-HUHTP40-240	6	ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	2.50	2.50
RNA-SEQ-HUHTP40-240	6	ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	2.26	2.26
RNA-SEQ-HUHTP40-240	6	ENSG00000144566	RAB5A	RAB5A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9783]	1.65	1.65
RNA-SEQ-HUHTP40-240	6	ENSG00000168610	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]	1.72	1.72
RNA-SEQ-HUHTP40-240	6	ENSG00000122435	TRMT13	tRNA methyltransferase 13 homolog [Source:HGNC Symbol;Acc:HGNC:25502]	1.67	1.67
RNA-SEQ-HUHTP40-240	6	ENSG00000145390	USP53	ubiquitin specific peptidase 53 [Source:HGNC Symbol;Acc:HGNC:29255]	1.72	1.72
RNA-SEQ-HUHTP40-241	7	ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	2.67	2.67
RNA-SEQ-HUHTP40-241	7	ENSG00000107201	DDX58	DEExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	2.77	2.77
RNA-SEQ-HUHTP40-241	7	ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]	2.23	2.23
RNA-SEQ-HUHTP40-241	7	ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	2.81	2.81
RNA-SEQ-HUHTP40-241	7	ENSG00000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	2.47	2.47
RNA-SEQ-HUHTP40-241	7	ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	3.87	3.87
RNA-SEQ-HUHTP40-241	7	ENSG00000137185	ZSCAN9	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]	2.32	2.32
RNA-SEQ-HUHTP40-242	3	ENSG00000134897	BIVM	basic, immunoglobulin-like variable motif containing [Source:HGNC Symbol;Acc:HGNC:16034]	-1.63	-1.63
RNA-SEQ-HUHTP40-242	3	ENSG00000111328	CDK2AP1	cyclin dependent kinase 2 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:14002]	-1.27	-1.27
RNA-SEQ-HUHTP40-242	3	ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]	-1.39	-1.39
RNA-SEQ-HUHTP40-243	4	ENSG00000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]	1.77	1.77
RNA-SEQ-HUHTP40-243	4	ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]	1.94	1.94
RNA-SEQ-HUHTP40-243	4	ENSG00000100100	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24942]	3.21	3.21
RNA-SEQ-HUHTP40-243	4	ENSG00000147852	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]	2.02	2.02
RNA-SEQ-HUHTP40-244	2	ENSG00000247796			-2.22	-2.22
RNA-SEQ-HUHTP40-244	2	ENSG00000187134	AKR1C1	aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384]	-2.30	-2.30
RNA-SEQ-HUHTP40-245	2	ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	-2.46	-2.46
RNA-SEQ-HUHTP40-245	2	ENSG00000161888	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]	-2.84	-2.84
RNA-SEQ-HUHTP40-246	3	ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	2.51	2.51
RNA-SEQ-HUHTP40-246	3	ENSG00000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	1.21	1.21
RNA-SEQ-HUHTP40-246	3	ENSG00000174165	ZDHHC24	zinc finger DHHC-type containing 24 [Source:HGNC Symbol;Acc:HGNC:27387]	1.23	1.23
RNA-SEQ-HUHTP40-247	4	ENSG00000162650	ATXN7L2	ataxin 7 like 2 [Source:HGNC Symbol;Acc:HGNC:28713]	1.82	1.82

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-247	4	ENSG00000215375	MYL5	myosin light chain 5 [Source:HGNC Symbol;Acc:HGNC:7586]	2.06	2.06
RNA-SEQ-HUHTP40-247	4	ENSG00000237187	NR2F1-AS1	NR2F1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48622]	2.08	2.08
RNA-SEQ-HUHTP40-247	4	ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	1.15	1.15
RNA-SEQ-HUHTP40-248	2	ENSG00000119125	GDA	guanine deaminase [Source:HGNC Symbol;Acc:HGNC:4212]	-1.86	-1.86
RNA-SEQ-HUHTP40-248	2	ENSG00000226715	LINC01709	long intergenic non-protein coding RNA 1709 [Source:HGNC Symbol;Acc:HGNC:52497]	-1.87	-1.87
RNA-SEQ-HUHTP40-249	2	ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	-2.68	-2.68
RNA-SEQ-HUHTP40-249	2	ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]	-1.55	-1.55
RNA-SEQ-HUHTP40-250	2	ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	3.88	3.88
RNA-SEQ-HUHTP40-250	2	ENSG00000151846	PABPC3	poly(A) binding protein cytoplasmic 3 [Source:HGNC Symbol;Acc:HGNC:8556]	1.34	1.34
RNA-SEQ-HUHTP40-251	2	ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	2.11	2.11
RNA-SEQ-HUHTP40-251	2	ENSG00000180035	ZNF48	zinc finger protein 48 [Source:HGNC Symbol;Acc:HGNC:13114]	1.85	1.85
RNA-SEQ-HUHTP40-252	2	ENSG00000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]	1.46	1.46
RNA-SEQ-HUHTP40-252	2	ENSG00000201271	RNU1-112P	RNA, U1 small nuclear 112, pseudogene [Source:HGNC Symbol;Acc:HGNC:48454]	1.76	1.76
RNA-SEQ-HUHTP40-253	3	ENSG00000189362	NEMP2	nuclear envelope integral membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:33700]	-2.24	-2.24
RNA-SEQ-HUHTP40-253	3	ENSG00000199812	RNU6-428P	RNA, U6 small nuclear 428, pseudogene [Source:HGNC Symbol;Acc:HGNC:47391]	-0.95	-0.95
RNA-SEQ-HUHTP40-253	3	ENSG00000242060	RPS3AP49	ribosomal protein S3a pseudogene 49 [Source:HGNC Symbol;Acc:HGNC:36810]	-1.84	-1.84
RNA-SEQ-HUHTP40-254	3	ENSG00000101199	ARFGAP1	ADP ribosylation factor GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:15852]	2.17	2.17
RNA-SEQ-HUHTP40-254	3	ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	4.13	4.13
RNA-SEQ-HUHTP40-254	3	ENSG00000187688	TRPV2	transient receptor potential cation channel subfamily V member 2 [Source:HGNC Symbol;Acc:HGNC:18082]	2.08	2.08
RNA-SEQ-HUHTP40-255	4	ENSG00000171298	GAA	glucosidase alpha, acid [Source:HGNC Symbol;Acc:HGNC:4065]	1.86	1.86
RNA-SEQ-HUHTP40-255	4	ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	1.85	1.85
RNA-SEQ-HUHTP40-255	4	ENSG00000197746	PSAP	prosaposin [Source:HGNC Symbol;Acc:HGNC:9498]	2.28	2.28
RNA-SEQ-HUHTP40-255	4	ENSG00000071537	SEL1L	SEL1L, ERAD E3 ligase adaptor subunit [Source:HGNC Symbol;Acc:HGNC:10717]	2.09	2.09
RNA-SEQ-HUHTP40-256	2	ENSG00000233952	FTLP15	ferritin light chain pseudogene 15 [Source:HGNC Symbol;Acc:HGNC:37965]	-1.73	-1.73
RNA-SEQ-HUHTP40-256	2	ENSG00000235169	SMIM1	small integral membrane protein 1 (Vel blood group) [Source:HGNC Symbol;Acc:HGNC:44204]	-3.03	-3.03
RNA-SEQ-HUHTP40-257	2	ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]	-0.77	-0.77
RNA-SEQ-HUHTP40-257	2	ENSG00000239742	RN7SL672P	RNA, 7SL, cytoplasmic 672, pseudogene [Source:HGNC Symbol;Acc:HGNC:46688]	-0.88	-0.88
RNA-SEQ-HUHTP40-258	2	ENSG00000068697	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]	1.77	1.77
RNA-SEQ-HUHTP40-258	2	ENSG00000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]	1.73	1.73
RNA-SEQ-HUHTP40-259	4	ENSG0000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]	2.17	2.17
RNA-SEQ-HUHTP40-259	4	ENSG00000134901	KDELC1	KDEL motif containing 1 [Source:HGNC Symbol;Acc:HGNC:19350]	1.39	1.39

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-259	4	ENSG00000170502	NUDT9	nudix hydrolase 9 [Source:HGNC Symbol;Acc:HGNC:8056]	1.96	1.96
RNA-SEQ-HUHTP40-259	4	ENSG00000173456	RNF26	ring finger protein 26 [Source:HGNC Symbol;Acc:HGNC:14646]	1.68	1.68
RNA-SEQ-HUHTP40-260	2	ENSG00000248643	RBM14-RBM4	RBM14-RBM4 readthrough [Source:HGNC Symbol;Acc:HGNC:38840]	-4.70	-4.70
RNA-SEQ-HUHTP40-260	2	ENSG00000188873	RPL10AP2	ribosomal protein L10a pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:31081]	-2.42	-2.42
RNA-SEQ-HUHTP40-261	2	ENSG00000196743	GM2A	GM2 ganglioside activator [Source:HGNC Symbol;Acc:HGNC:4367]	-1.33	-1.33
RNA-SEQ-HUHTP40-261	2	ENSG00000142065	ZFP14	ZFP14 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:29312]	-1.48	-1.48
RNA-SEQ-HUHTP40-262	2	ENSG00000268222	EEF1A1P7	eukaryotic translation elongation factor 1 alpha 1 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:3202]	-1.28	-1.28
RNA-SEQ-HUHTP40-262	2	ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5 [Source:HGNC Symbol;Acc:HGNC:3367]	-1.02	-1.02
RNA-SEQ-HUHTP40-263	2	ENSG00000224094	RPS24P8	ribosomal protein S24 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:37016]	-2.49	-2.49
RNA-SEQ-HUHTP40-263	2	ENSG00000079689	SCGN	secretagogin, EF-hand calcium binding protein [Source:HGNC Symbol;Acc:HGNC:16941]	-2.67	-2.67
RNA-SEQ-HUHTP40-264	2	ENSG00000142408	CACNG8	calcium voltage-gated channel auxiliary subunit gamma 8 [Source:HGNC Symbol;Acc:HGNC:13628]	1.55	1.55
RNA-SEQ-HUHTP40-264	2	ENSG00000183098	GPC6	glycan 6 [Source:HGNC Symbol;Acc:HGNC:4454]	0.52	0.52
RNA-SEQ-HUHTP40-265	3	ENSG00000214765	SEPT7P2	septin 7 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:32339]	1.42	1.42
RNA-SEQ-HUHTP40-265	3	ENSG00000078804	TP53INP2	tumor protein p53 inducible nuclear protein 2 [Source:HGNC Symbol;Acc:HGNC:16104]	1.34	1.34
RNA-SEQ-HUHTP40-265	3	ENSG00000197808	ZNF461	zinc finger protein 461 [Source:HGNC Symbol;Acc:HGNC:21629]	1.24	1.24
RNA-SEQ-HUHTP40-266	2	ENSG00000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]	1.37	1.37
RNA-SEQ-HUHTP40-266	2	ENSG00000178078	STAP2	signal transducing adaptor family member 2 [Source:HGNC Symbol;Acc:HGNC:30430]	2.01	2.01
RNA-SEQ-HUHTP40-267	4	ENSG00000106927	AMBP	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]	1.40	1.40
RNA-SEQ-HUHTP40-267	4	ENSG00000196576	PLXNB2	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]	2.10	2.10
RNA-SEQ-HUHTP40-267	4	ENSG00000223202	RN7SKP297	RNA, 7SK small nuclear pseudogene 297 [Source:HGNC Symbol;Acc:HGNC:46021]	1.62	1.62
RNA-SEQ-HUHTP40-267	4	ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]	1.14	1.14
RNA-SEQ-HUHTP40-268	2	ENSG00000119703	ZC2HC1C	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]	2.91	2.91
RNA-SEQ-HUHTP40-268	2	ENSG00000197647	ZNF433	zinc finger protein 433 [Source:HGNC Symbol;Acc:HGNC:20811]	2.91	2.91
RNA-SEQ-HUHTP40-269	3	ENSG00000175505	CLCF1	cardiotrophin like cytokine factor 1 [Source:HGNC Symbol;Acc:HGNC:17412]	1.60	1.60
RNA-SEQ-HUHTP40-269	3	ENSG00000181218	HIST3H2A	histone cluster 3 H2A [Source:HGNC Symbol;Acc:HGNC:20507]	2.79	2.79
RNA-SEQ-HUHTP40-269	3	ENSG00000134970	TMED7	transmembrane p24 trafficking protein 7 [Source:HGNC Symbol;Acc:HGNC:24253]	1.16	1.16
RNA-SEQ-HUHTP40-270	3	ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	2.98	2.98
RNA-SEQ-HUHTP40-270	3	ENSG00000105223	PLD3	phospholipase D family member 3 [Source:HGNC Symbol;Acc:HGNC:17158]	2.59	2.59
RNA-SEQ-HUHTP40-270	3	ENSG00000152689	RASGRP3	RAS guanyl releasing protein 3 [Source:HGNC Symbol;Acc:HGNC:14545]	1.76	1.76
RNA-SEQ-HUHTP40-271	5	ENSG00000124574	ABCC10	ATP binding cassette subfamily C member 10 [Source:HGNC Symbol;Acc:HGNC:52]	2.35	2.35
RNA-SEQ-HUHTP40-271	5	ENSG00000123989	CHPF	chondroitin polymerizing factor [Source:HGNC Symbol;Acc:HGNC:24291]	2.88	2.88

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-271	5	ENSG00000143870	PDIA6	protein disulfide isomerase family A member 6 [Source:HGNC Symbol;Acc:HGNC:30168]	1.59	1.59
RNA-SEQ-HUHTP40-271	5	ENSG00000199469	RNU1-62P	RNA, U1 small nuclear 62, pseudogene [Source:HGNC Symbol;Acc:HGNC:48404]	1.68	1.68
RNA-SEQ-HUHTP40-271	5	ENSG00000136816	TOR1B	torsin family 1 member B [Source:HGNC Symbol;Acc:HGNC:11995]	1.47	1.47
RNA-SEQ-HUHTP40-272	3	ENSG00000144354	CDCA7	cell division cycle associated 7 [Source:HGNC Symbol;Acc:HGNC:14628]	-0.89	-0.89
RNA-SEQ-HUHTP40-272	3	ENSG00000228956	SATB1-AS1	SATB1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50687]	-1.45	-1.45
RNA-SEQ-HUHTP40-272	3	ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]	-1.27	-1.27
RNA-SEQ-HUHTP40-273	3	ENSG00000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]	2.16	2.16
RNA-SEQ-HUHTP40-273	3	ENSG00000100600	LGMN	legumain [Source:HGNC Symbol;Acc:HGNC:9472]	2.37	2.37
RNA-SEQ-HUHTP40-273	3	ENSG00000184840	TMED9	transmembrane p24 trafficking protein 9 [Source:HGNC Symbol;Acc:HGNC:24878]	2.19	2.19
RNA-SEQ-HUHTP40-274	2	ENSG00000149573	MPZL2	myelin protein zero like 2 [Source:HGNC Symbol;Acc:HGNC:3496]	-0.95	-0.95
RNA-SEQ-HUHTP40-274	2	ENSG00000073150	PANX2	pannexin 2 [Source:HGNC Symbol;Acc:HGNC:8600]	-1.91	-1.91
RNA-SEQ-HUHTP40-275	3	ENSG00000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	-1.67	-1.67
RNA-SEQ-HUHTP40-275	3	ENSG00000080618	CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]	-1.28	-1.28
RNA-SEQ-HUHTP40-275	3	ENSG00000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]	-0.90	-0.90
RNA-SEQ-HUHTP40-276	2	ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	3.57	3.57
RNA-SEQ-HUHTP40-276	2	ENSG00000147202	DIAPH2	diaphanous related formin 2 [Source:HGNC Symbol;Acc:HGNC:2877]	1.68	1.68
RNA-SEQ-HUHTP40-277	2	ENSG00000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	1.45	1.45
RNA-SEQ-HUHTP40-277	2	ENSG00000185164	NOMO2	NODAL modulator 2 [Source:HGNC Symbol;Acc:HGNC:22652]	1.17	1.17
RNA-SEQ-HUHTP40-278	8	ENSG00000134153	EMC7	ER membrane protein complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:24301]	1.59	1.59
RNA-SEQ-HUHTP40-278	8	ENSG00000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]	5.17	5.17
RNA-SEQ-HUHTP40-278	8	ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene) [Source:HGNC Symbol;Acc:HGNC:4969]	4.59	4.59
RNA-SEQ-HUHTP40-278	8	ENSG00000143303	RRNAD1	ribosomal RNA adenine dimethylase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:24273]	1.78	1.78
RNA-SEQ-HUHTP40-278	8	ENSG00000135919	SERPINE2	serpin family E member 2 [Source:HGNC Symbol;Acc:HGNC:8951]	1.47	1.47
RNA-SEQ-HUHTP40-278	8	ENSG0000004866	ST7	suppression of tumorigenicity 7 [Source:HGNC Symbol;Acc:HGNC:11351]	1.34	1.34
RNA-SEQ-HUHTP40-278	8	ENSG00000170537	TMC7	transmembrane channel like 7 [Source:HGNC Symbol;Acc:HGNC:23000]	2.22	2.22
RNA-SEQ-HUHTP40-278	8	ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	1.75	1.75
RNA-SEQ-HUHTP40-279	3	ENSG00000254166	CASC19	cancer susceptibility 19 [Source:HGNC Symbol;Acc:HGNC:49476]	1.07	1.07
RNA-SEQ-HUHTP40-279	3	ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	1.37	1.37
RNA-SEQ-HUHTP40-279	3	ENSG00000126561	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:HGNC:11366]	1.24	1.24
RNA-SEQ-HUHTP40-280	3	ENSG00000198624	CCDC69	coiled-coil domain containing 69 [Source:HGNC Symbol;Acc:HGNC:24487]	-2.11	-2.11
RNA-SEQ-HUHTP40-280	3	ENSG00000183807	FAM162B	family with sequence similarity 162 member B [Source:HGNC Symbol;Acc:HGNC:21549]	-1.76	-1.76

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-280	3	ENSG00000117450	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:9352]	-2.44	-2.44
RNA-SEQ-HUHTP40-281	3	ENSG00000173230	GOLGB1	golgin B1 [Source:HGNC Symbol;Acc:HGNC:4429]	1.06	1.06
RNA-SEQ-HUHTP40-281	3	ENSG00000077454	LRCH4	leucine rich repeats and calponin homology domain containing 4 [Source:HGNC Symbol;Acc:HGNC:6691]	1.71	1.71
RNA-SEQ-HUHTP40-281	3	ENSG00000189164	ZNF527	zinc finger protein 527 [Source:HGNC Symbol;Acc:HGNC:29385]	2.26	2.26
RNA-SEQ-HUHTP40-282	3	ENSG00000200795	RNU4-1	RNA, U4 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10192]	1.79	1.79
RNA-SEQ-HUHTP40-282	3	ENSG00000199568	RNU5A-1	RNA, U5A small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10211]	1.98	1.98
RNA-SEQ-HUHTP40-282	3	ENSG00000169359	SLC33A1	solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95]	1.88	1.88
RNA-SEQ-HUHTP40-283	3	ENSG00000172270	BSG	basigin (Ok blood group) [Source:HGNC Symbol;Acc:HGNC:1116]	0.90	0.90
RNA-SEQ-HUHTP40-283	3	ENSG00000264229	RNU4ATAC	RNA, U4atac small nuclear (U12-dependent splicing) [Source:HGNC Symbol;Acc:HGNC:34016]	1.89	1.89
RNA-SEQ-HUHTP40-283	3	ENSG00000238835	SCARNA18	small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]	2.72	2.72
RNA-SEQ-HUHTP40-284	9	ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	4.64	4.64
RNA-SEQ-HUHTP40-284	9	ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]	3.02	3.02
RNA-SEQ-HUHTP40-284	9	ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]	1.96	1.96
RNA-SEQ-HUHTP40-284	9	ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	3.26	3.26
RNA-SEQ-HUHTP40-284	9	ENSG00000196547	MAN2A2	mannosidase alpha class 2A member 2 [Source:HGNC Symbol;Acc:HGNC:6825]	2.14	2.14
RNA-SEQ-HUHTP40-284	9	ENSG00000135124	P2RX4	purinergic receptor P2X 4 [Source:HGNC Symbol;Acc:HGNC:8535]	2.15	2.15
RNA-SEQ-HUHTP40-284	9	ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]	3.24	3.24
RNA-SEQ-HUHTP40-284	9	ENSG00000197283	SYNGAP1	synaptic Ras GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:11497]	3.39	3.39
RNA-SEQ-HUHTP40-284	9	ENSG00000178297	TMPRSS9	transmembrane serine protease 9 [Source:HGNC Symbol;Acc:HGNC:30079]	2.69	2.69
RNA-SEQ-HUHTP40-285	3	ENSG00000114771	AADAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc:HGNC:17]	-0.63	-0.63
RNA-SEQ-HUHTP40-285	3	ENSG00000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]	-0.76	-0.76
RNA-SEQ-HUHTP40-285	3	ENSG00000167705	RILP	Rab interacting lysosomal protein [Source:HGNC Symbol;Acc:HGNC:30266]	-0.72	-0.72
RNA-SEQ-HUHTP40-286	3	ENSG00000189114	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3 [Source:HGNC Symbol;Acc:HGNC:20914]	2.28	2.28
RNA-SEQ-HUHTP40-286	3	ENSG00000165113	GKAP1	G kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:17496]	2.48	2.48
RNA-SEQ-HUHTP40-286	3	ENSG00000270069	MIR222HG	miR222/221 cluster host gene [Source:HGNC Symbol;Acc:HGNC:49555]	2.25	2.25
RNA-SEQ-HUHTP40-287	2	ENSG00000232587	EEF1A1P3	eukaryotic translation elongation factor 1 alpha 1 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:3194]	-2.86	-2.86
RNA-SEQ-HUHTP40-287	2	ENSG00000199368	RNU6-1084P	RNA, U6 small nuclear 1084, pseudogene [Source:HGNC Symbol;Acc:HGNC:48047]	-1.92	-1.92
RNA-SEQ-HUHTP40-288	4	ENSG00000180867	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4607]	1.76	1.76
RNA-SEQ-HUHTP40-288	4	ENSG00000099203	TMED1	transmembrane p24 trafficking protein 1 [Source:HGNC Symbol;Acc:HGNC:17291]	1.01	1.01
RNA-SEQ-HUHTP40-288	4	ENSG00000197355	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1 [Source:HGNC Symbol;Acc:HGNC:28082]	1.78	1.78
RNA-SEQ-HUHTP40-288	4	ENSG00000166188	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:HGNC:13644]	3.58	3.58

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>		
					FC	CYT	FC
							ER
RNA-SEQ-HUHTP40-289	4	ENSG00000165272	AQP3	aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:HGNC:636]	1.89		1.89
RNA-SEQ-HUHTP40-289	4	ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	2.85		2.85
RNA-SEQ-HUHTP40-289	4	ENSG00000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]	2.58		2.58
RNA-SEQ-HUHTP40-289	4	ENSG00000178229	ZNF543	zinc finger protein 543 [Source:HGNC Symbol;Acc:HGNC:25281]	1.90		1.90
RNA-SEQ-HUHTP40-290	3	ENSG00000130827	PLXNA3	plexin A3 [Source:HGNC Symbol;Acc:HGNC:9101]	3.80		3.80
RNA-SEQ-HUHTP40-290	3	ENSG00000040487	PQLC2	PQ loop repeat containing 2 [Source:HGNC Symbol;Acc:HGNC:26001]	2.94		2.94
RNA-SEQ-HUHTP40-290	3	ENSG00000166224	SGPL1	sphingosine-1-phosphate lyase 1 [Source:HGNC Symbol;Acc:HGNC:10817]	1.78		1.78
RNA-SEQ-HUHTP40-291	3	ENSG00000205835	GMNC	geminin coiled-coil domain containing [Source:HGNC Symbol;Acc:HGNC:40049]	-1.40		-1.40
RNA-SEQ-HUHTP40-291	3	ENSG00000137497	NUMA1	nuclear mitotic apparatus protein 1 [Source:HGNC Symbol;Acc:HGNC:8059]	-0.82		-0.82
RNA-SEQ-HUHTP40-291	3	ENSG00000271303	SRXN1	sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]	-0.73		-0.73
RNA-SEQ-HUHTP40-292	3	ENSG00000134184	GSTM1	glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:HGNC:4632]	-2.27		-2.27
RNA-SEQ-HUHTP40-292	3	ENSG00000207261	RNU6-738P	RNA, U6 small nuclear 738, pseudogene [Source:HGNC Symbol;Acc:HGNC:47701]	-0.95		-0.95
RNA-SEQ-HUHTP40-292	3	ENSG00000262519	TXNP4	thioredoxin pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:49484]	-2.30		-2.30
RNA-SEQ-HUHTP40-293	3	ENSG00000213757		ribosomal protein S3A (RPS3A) pseudogene	-3.46		-3.46
RNA-SEQ-HUHTP40-293	3	ENSG00000171130	ATP6V0E2	ATPase H ⁺ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:HGNC:21723]	-2.58		-2.58
RNA-SEQ-HUHTP40-293	3	ENSG00000206954	RNU6-1201P	RNA, U6 small nuclear 1201, pseudogene [Source:HGNC Symbol;Acc:HGNC:48164]	-0.92		-0.92
RNA-SEQ-HUHTP40-294	3	ENSG00000241360	PDXP	pyridoxal phosphatase [Source:HGNC Symbol;Acc:HGNC:30259]	-2.15		-2.15
RNA-SEQ-HUHTP40-294	3	ENSG00000230897	RPS18P12	ribosomal protein S18 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:35967]	-1.61		-1.61
RNA-SEQ-HUHTP40-294	3	ENSG00000189298	ZKSCAN3	zinc finger with KRAB and SCAN domains 3 [Source:HGNC Symbol;Acc:HGNC:13853]	-2.56		-2.56
RNA-SEQ-HUHTP40-295	2	ENSG00000171603	CLSTN1	calsyntenin 1 [Source:HGNC Symbol;Acc:HGNC:17447]	2.22		2.22
RNA-SEQ-HUHTP40-295	2	ENSG00000152291	TGOLN2	trans-golgi network protein 2 [Source:HGNC Symbol;Acc:HGNC:15450]	1.17		1.17
RNA-SEQ-HUHTP40-296	2	ENSG00000217241	CBX3P9	chromobox 3 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:42881]	-2.82		-2.82
RNA-SEQ-HUHTP40-296	2	ENSG00000064225	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]	-1.56		-1.56
RNA-SEQ-HUHTP40-297	2	ENSG00000200091	RN7SKP163	RNA, 7SK small nuclear pseudogene 163 [Source:HGNC Symbol;Acc:HGNC:45887]	0.19		0.19
RNA-SEQ-HUHTP40-297	2	ENSG00000200243	RN7SKP79	RNA, 7SK small nuclear pseudogene 79 [Source:HGNC Symbol;Acc:HGNC:45803]	0.20		0.20
RNA-SEQ-HUHTP40-298	2	ENSG00000268916	CSAG3	CSAG family member 3 [Source:HGNC Symbol;Acc:HGNC:26237]	1.83		1.83
RNA-SEQ-HUHTP40-298	2	ENSG00000212443	SNORA53	small nucleolar RNA, H/ACA box 53 [Source:HGNC Symbol;Acc:HGNC:32646]	1.84		1.84
RNA-SEQ-HUHTP40-299	2	ENSG00000272113			-2.06		-2.06
RNA-SEQ-HUHTP40-299	2	ENSG00000242101	RN7SL416P	RNA, 7SL, cytoplasmic 416, pseudogene [Source:HGNC Symbol;Acc:HGNC:46432]	-2.63		-2.63
RNA-SEQ-HUHTP40-300	4	ENSG00000102409	BEX4	brain expressed X-linked 4 [Source:HGNC Symbol;Acc:HGNC:25475]	1.88		1.88
RNA-SEQ-HUHTP40-300	4	ENSG00000146674	IGFBP3	insulin like growth factor binding protein 3 [Source:HGNC Symbol;Acc:HGNC:5472]	2.72		2.72

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-300	4	ENSG00000132793	LPIN3	lipin 3 [Source:HGNC Symbol;Acc:HGNC:14451]	1.88	1.88
RNA-SEQ-HUHTP40-300	4	ENSG00000177058	SLC38A9	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]	1.30	1.30
RNA-SEQ-HUHTP40-301	3	ENSG00000259614		tubulin, alpha 1a (TUBA1A) pseudogene	-3.15	-3.15
RNA-SEQ-HUHTP40-301	3	ENSG00000214199	EEF1A1P12	eukaryotic translation elongation factor 1 alpha 1 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:3195]	-2.32	-2.32
RNA-SEQ-HUHTP40-301	3	ENSG00000243955	GSTA1	glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc:HGNC:4626]	-2.02	-2.02
RNA-SEQ-HUHTP40-302	3	ENSG00000251432	LINC02615	long intergenic non-protein coding RNA 2615 [Source:HGNC Symbol;Acc:HGNC:53402]	1.53	1.53
RNA-SEQ-HUHTP40-302	3	ENSG00000222281	RN7SKP111	RNA, 7SK small nuclear pseudogene 111 [Source:HGNC Symbol;Acc:HGNC:45835]	1.05	1.05
RNA-SEQ-HUHTP40-302	3	ENSG00000173480	ZNF417	zinc finger protein 417 [Source:HGNC Symbol;Acc:HGNC:20646]	2.27	2.27
RNA-SEQ-HUHTP40-303	2	ENSG00000104140	RHOV	ras homolog family member V [Source:HGNC Symbol;Acc:HGNC:18313]	2.27	2.27
RNA-SEQ-HUHTP40-303	2	ENSG00000132801	ZSWIM3	zinc finger SWIM-type containing 3 [Source:HGNC Symbol;Acc:HGNC:16157]	1.13	1.13
RNA-SEQ-HUHTP40-304	2	ENSG00000231789	PIK3CD-AS2	PIK3CD antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:51334]	-0.61	-0.61
RNA-SEQ-HUHTP40-304	2	ENSG00000222438	RNU6-1077P	RNA, U6 small nuclear 1077, pseudogene [Source:HGNC Symbol;Acc:HGNC:48040]	-0.75	-0.75
RNA-SEQ-HUHTP40-305	2	ENSG00000234337		tropomyosin 1 (alpha) (TPM1) pseudogene	-2.90	-2.90
RNA-SEQ-HUHTP40-305	2	ENSG00000214362	RPS3AP36	ribosomal protein S3a pseudogene 36 [Source:HGNC Symbol;Acc:HGNC:35596]	-2.15	-2.15
RNA-SEQ-HUHTP40-306	3	ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]	-1.23	-1.23
RNA-SEQ-HUHTP40-306	3	ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	-2.05	-2.05
RNA-SEQ-HUHTP40-306	3	ENSG00000137364	TPMT	thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:HGNC:12014]	-0.80	-0.80
RNA-SEQ-HUHTP40-307	3	ENSG00000083123	BCKDHB	branched chain keto acid dehydrogenase E1 subunit beta [Source:HGNC Symbol;Acc:HGNC:987]	-1.14	-1.14
RNA-SEQ-HUHTP40-307	3	ENSG00000180745	CLRN3	clarin 3 [Source:HGNC Symbol;Acc:HGNC:20795]	-1.65	-1.65
RNA-SEQ-HUHTP40-307	3	ENSG00000121068	TBX2	T-box 2 [Source:HGNC Symbol;Acc:HGNC:11597]	-1.52	-1.52
RNA-SEQ-HUHTP40-308	3	ENSG00000168811	IL12A	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]	2.92	2.92
RNA-SEQ-HUHTP40-308	3	ENSG00000099812	MISP	mitotic spindle positioning [Source:HGNC Symbol;Acc:HGNC:27000]	3.02	3.02
RNA-SEQ-HUHTP40-308	3	ENSG00000166340	TPP1	tripeptidyl peptidase 1 [Source:HGNC Symbol;Acc:HGNC:2073]	2.13	2.13
RNA-SEQ-HUHTP40-309	2	ENSG00000180210	F2	coagulation factor II, thrombin [Source:HGNC Symbol;Acc:HGNC:3535]	1.66	1.66
RNA-SEQ-HUHTP40-309	2	ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	1.40	1.40
RNA-SEQ-HUHTP40-310	5	ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	2.60	2.60
RNA-SEQ-HUHTP40-310	5	ENSG00000174804	FZD4	frizzled class receptor 4 [Source:HGNC Symbol;Acc:HGNC:4042]	1.99	1.99
RNA-SEQ-HUHTP40-310	5	ENSG00000050344	NFE2L3	nuclear factor, erythroid 2 like 3 [Source:HGNC Symbol;Acc:HGNC:7783]	2.93	2.93
RNA-SEQ-HUHTP40-310	5	ENSG00000162298	SYVN1	synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]	1.67	1.67
RNA-SEQ-HUHTP40-310	5	ENSG00000185339	TCN2	transcobalamin 2 [Source:HGNC Symbol;Acc:HGNC:11653]	2.23	2.23
RNA-SEQ-HUHTP40-311	3	ENSG00000255508		novel transcript	-3.40	-3.40

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-311	3	ENSG00000130429	ARPC1B	actin related protein 2/3 complex subunit 1B [Source:HGNC Symbol;Acc:HGNC:704]	-2.27	-2.27
RNA-SEQ-HUHTP40-311	3	ENSG00000138101	DTNB	dystrobrevin beta [Source:HGNC Symbol;Acc:HGNC:3058]	-2.27	-2.27
RNA-SEQ-HUHTP40-312	2	ENSG00000280123		TEC	-0.02	-0.02
RNA-SEQ-HUHTP40-312	2	ENSG00000260804	LINC01963	long intergenic non-protein coding RNA 1963 [Source:HGNC Symbol;Acc:HGNC:25283]	0.34	0.34
RNA-SEQ-HUHTP40-313	2	ENSG00000260822		novel transcript, overlapping to PDK3	-2.73	-2.73
RNA-SEQ-HUHTP40-313	2	ENSG00000115252	PDE1A	phosphodiesterase 1A [Source:HGNC Symbol;Acc:HGNC:8774]	-2.28	-2.28
RNA-SEQ-HUHTP40-314	3	ENSG00000230021			-1.68	-1.68
RNA-SEQ-HUHTP40-314	3	ENSG00000248473	LINC01962	long intergenic non-protein coding RNA 1962 [Source:HGNC Symbol;Acc:HGNC:52787]	-2.22	-2.22
RNA-SEQ-HUHTP40-314	3	ENSG00000241420	RN7SL505P	RNA, 7SL, cytoplasmic 505, pseudogene [Source:HGNC Symbol;Acc:HGNC:46521]	-1.18	-1.18
RNA-SEQ-HUHTP40-315	3	ENSG00000150093	ITGB1	integrin subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:6153]	0.72	0.72
RNA-SEQ-HUHTP40-315	3	ENSG00000202360	RN7SKP249	RNA, 7SK small nuclear pseudogene 249 [Source:HGNC Symbol;Acc:HGNC:45973]	1.70	1.70
RNA-SEQ-HUHTP40-315	3	ENSG00000167114	SLC27A4	solute carrier family 27 member 4 [Source:HGNC Symbol;Acc:HGNC:10998]	1.62	1.62
RNA-SEQ-HUHTP40-316	6	ENSG00000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]	-0.86	-0.86
RNA-SEQ-HUHTP40-316	6	ENSG00000132879	FBXO44	F-box protein 44 [Source:HGNC Symbol;Acc:HGNC:24847]	-1.12	-1.12
RNA-SEQ-HUHTP40-316	6	ENSG00000204099	NEU4	neuraminidase 4 [Source:HGNC Symbol;Acc:HGNC:21328]	-1.53	-1.53
RNA-SEQ-HUHTP40-316	6	ENSG00000008323	PLEKHG6	pleckstrin homology and RhoGEF domain containing G6 [Source:HGNC Symbol;Acc:HGNC:25562]	-1.13	-1.13
RNA-SEQ-HUHTP40-316	6	ENSG00000242071	RPL7AP6	ribosomal protein L7a pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:19785]	-1.25	-1.25
RNA-SEQ-HUHTP40-316	6	ENSG00000167291	TBC1D16	TBC1 domain family member 16 [Source:HGNC Symbol;Acc:HGNC:28356]	-1.15	-1.15
RNA-SEQ-HUHTP40-317	3	ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]	-1.98	-1.98
RNA-SEQ-HUHTP40-317	3	ENSG00000182378	PLCXD1	phosphatidylinositol specific phospholipase C X domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23148]	-1.86	-1.86
RNA-SEQ-HUHTP40-317	3	ENSG00000148123	PLPPR1	phospholipid phosphatase related 1 [Source:HGNC Symbol;Acc:HGNC:25993]	-3.52	-3.52
RNA-SEQ-HUHTP40-318	2	ENSG00000116675	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6 [Source:HGNC Symbol;Acc:HGNC:15469]	-3.35	-3.35
RNA-SEQ-HUHTP40-318	2	ENSG00000136235	GPNMB	glycoprotein nmb [Source:HGNC Symbol;Acc:HGNC:4462]	-3.64	-3.64
RNA-SEQ-HUHTP40-319	3	ENSG00000199223			-2.75	-2.75
RNA-SEQ-HUHTP40-319	3	ENSG00000240023		ribosomal protein, large, P0 (RPLP0) pseudogene	-2.52	-2.52
RNA-SEQ-HUHTP40-319	3	ENSG00000264112		novel transcript	-1.76	-1.76
RNA-SEQ-HUHTP40-320	3	ENSG00000259020		prothymosin, alpha (PTMA) pseudogene	-0.93	-0.93
RNA-SEQ-HUHTP40-320	3	ENSG00000257907	EEF1A1P17	eukaryotic translation elongation factor 1 alpha 1 pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37890]	-1.63	-1.63
RNA-SEQ-HUHTP40-320	3	ENSG00000258429	PDF	peptide deformylase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:30012]	-0.79	-0.79
RNA-SEQ-HUHTP40-321	10	ENSG00000115170	ACVR1	activin A receptor type 1 [Source:HGNC Symbol;Acc:HGNC:171]	1.86	1.86
RNA-SEQ-HUHTP40-321	10	ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]	1.14	1.14

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-321	10	ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	2.39	2.39
RNA-SEQ-HUHTP40-321	10	ENSG00000148719	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12 [Source:HGNC Symbol;Acc:HGNC:14891]	1.67	1.67
RNA-SEQ-HUHTP40-321	10	ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	4.30	4.30
RNA-SEQ-HUHTP40-321	10	ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	2.45	2.45
RNA-SEQ-HUHTP40-321	10	ENSG00000137522	RNF121	ring finger protein 121 [Source:HGNC Symbol;Acc:HGNC:21070]	2.10	2.10
RNA-SEQ-HUHTP40-321	10	ENSG00000137767	SQOR	sulfide quinone oxidoreductase [Source:HGNC Symbol;Acc:HGNC:20390]	2.42	2.42
RNA-SEQ-HUHTP40-321	10	ENSG00000173276	ZBTB21	zinc finger and BTB domain containing 21 [Source:HGNC Symbol;Acc:HGNC:13083]	2.01	2.01
RNA-SEQ-HUHTP40-321	10	ENSG00000165655	ZNF503	zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23589]	3.43	3.43
RNA-SEQ-HUHTP40-322	2	ENSG00000163898	LIPH	lipase H [Source:HGNC Symbol;Acc:HGNC:18483]	1.40	1.40
RNA-SEQ-HUHTP40-322	2	ENSG00000132406	TMEM128	transmembrane protein 128 [Source:HGNC Symbol;Acc:HGNC:28201]	1.56	1.56
RNA-SEQ-HUHTP40-323	2	ENSG00000238825	RNU1-13P	RNA, U1 small nuclear 13, pseudogene [Source:HGNC Symbol;Acc:HGNC:10138]	1.32	1.32
RNA-SEQ-HUHTP40-323	2	ENSG00000146828	SLC12A9	solute carrier family 12 member 9 [Source:HGNC Symbol;Acc:HGNC:17435]	1.31	1.31
RNA-SEQ-HUHTP40-324	6	ENSG00000223478			-3.50	-3.50
RNA-SEQ-HUHTP40-324	6	ENSG00000269888		novel transcript	-2.78	-2.78
RNA-SEQ-HUHTP40-324	6	ENSG00000127920	GNG11	G protein subunit gamma 11 [Source:HGNC Symbol;Acc:HGNC:4403]	-2.92	-2.92
RNA-SEQ-HUHTP40-324	6	ENSG00000240767	RN7SL288P	RNA, 7SL, cytoplasmic 288, pseudogene [Source:HGNC Symbol;Acc:HGNC:46304]	-1.64	-1.64
RNA-SEQ-HUHTP40-324	6	ENSG00000242769	RN7SL432P	RNA, 7SL, cytoplasmic 432, pseudogene [Source:HGNC Symbol;Acc:HGNC:46448]	-2.53	-2.53
RNA-SEQ-HUHTP40-324	6	ENSG00000173930	SLCO4C1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	-3.02	-3.02
RNA-SEQ-HUHTP40-325	2	ENSG00000152749	GPR180	G protein-coupled receptor 180 [Source:HGNC Symbol;Acc:HGNC:28899]	1.23	1.23
RNA-SEQ-HUHTP40-325	2	ENSG00000206908	RNU1-136P	RNA, U1 small nuclear 136, pseudogene [Source:HGNC Symbol;Acc:HGNC:48478]	3.70	3.70
RNA-SEQ-HUHTP40-326	3	ENSG00000202306			-2.35	-2.35
RNA-SEQ-HUHTP40-326	3	ENSG00000198056	PRIM1	DNA primase subunit 1 [Source:HGNC Symbol;Acc:HGNC:9369]	-2.86	-2.86
RNA-SEQ-HUHTP40-326	3	ENSG00000105967	TFEC	transcription factor EC [Source:HGNC Symbol;Acc:HGNC:11754]	-2.24	-2.24
RNA-SEQ-HUHTP40-327	3	ENSG00000178301	AQP11	aquaporin 11 [Source:HGNC Symbol;Acc:HGNC:19940]	-2.12	-2.12
RNA-SEQ-HUHTP40-327	3	ENSG00000223668	EEF1A1P24	eukaryotic translation elongation factor 1 alpha 1 pseudogene 24 [Source:HGNC Symbol;Acc:HGNC:37897]	-0.79	-0.79
RNA-SEQ-HUHTP40-327	3	ENSG00000225455	TPI1P4	triosephosphate isomerase 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:38071]	-2.36	-2.36
RNA-SEQ-HUHTP40-328	3	ENSG00000235776		ribosomal protein L7a (RPL7A) pseudogene	-2.61	-2.61
RNA-SEQ-HUHTP40-328	3	ENSG00000187017	ESPN	espin [Source:HGNC Symbol;Acc:HGNC:13281]	-2.88	-2.88
RNA-SEQ-HUHTP40-328	3	ENSG00000228347	FTLP17	ferritin light chain pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37967]	-3.54	-3.54
RNA-SEQ-HUHTP40-329	3	ENSG00000232332		ADP-ribosylation factor-like 5 (ARL5) pseudogene	-2.10	-2.10
RNA-SEQ-HUHTP40-329	3	ENSG00000261635		tropomyosin 3 (TPM3) pseudogene	-3.12	-3.12

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-329	3	ENSG00000234743	EIF5AP4	eukaryotic translation initiation factor 5A pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:31442]	-2.29	-2.29
RNA-SEQ-HUHTP40-330	2	ENSG00000226067	LINC00623	long intergenic non-protein coding RNA 623 [Source:HGNC Symbol;Acc:HGNC:44252]	3.94	3.94
RNA-SEQ-HUHTP40-330	2	ENSG0000015568	RGPD5	RANBP2-like and GRIP domain containing 5 [Source:HGNC Symbol;Acc:HGNC:32418]	2.96	2.96
RNA-SEQ-HUHTP40-331	2	ENSG00000259697		novel transcript	-1.08	-1.08
RNA-SEQ-HUHTP40-331	2	ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	-2.07	-2.07
RNA-SEQ-HUHTP40-332	3	ENSG00000156140	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	-1.83	-1.83
RNA-SEQ-HUHTP40-332	3	ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	-2.70	-2.70
RNA-SEQ-HUHTP40-332	3	ENSG00000135617	PRADC1	protease associated domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16047]	-1.95	-1.95
RNA-SEQ-HUHTP40-333	2	ENSG00000206905			-2.63	-2.63
RNA-SEQ-HUHTP40-333	2	ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]	-0.80	-0.80
RNA-SEQ-HUHTP40-334	7	ENSG00000202137			-2.67	-2.67
RNA-SEQ-HUHTP40-334	7	ENSG00000245848	CEBPA	CCAAT enhancer binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1833]	-1.73	-1.73
RNA-SEQ-HUHTP40-334	7	ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	-2.44	-2.44
RNA-SEQ-HUHTP40-334	7	ENSG00000256937	KRT17P8	keratin 17 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:50726]	-2.49	-2.49
RNA-SEQ-HUHTP40-334	7	ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	-2.73	-2.73
RNA-SEQ-HUHTP40-334	7	ENSG00000168078	PBK	PDZ binding kinase [Source:HGNC Symbol;Acc:HGNC:18282]	-1.68	-1.68
RNA-SEQ-HUHTP40-334	7	ENSG00000146858	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like [Source:HGNC Symbol;Acc:HGNC:22423]	-1.53	-1.53
RNA-SEQ-HUHTP40-335	6	ENSG00000126777	KTN1	kinectin 1 [Source:HGNC Symbol;Acc:HGNC:6467]	1.04	1.04
RNA-SEQ-HUHTP40-335	6	ENSG00000175556	LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:HGNC:21152]	1.28	1.28
RNA-SEQ-HUHTP40-335	6	ENSG00000251258	RFPL4B	ret finger protein like 4B [Source:HGNC Symbol;Acc:HGNC:33264]	1.36	1.36
RNA-SEQ-HUHTP40-335	6	ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	1.32	1.32
RNA-SEQ-HUHTP40-335	6	ENSG00000133460	SLC2A11	solute carrier family 2 member 11 [Source:HGNC Symbol;Acc:HGNC:14239]	0.72	0.72
RNA-SEQ-HUHTP40-335	6	ENSG00000166436	TRIM66	tripartite motif containing 66 [Source:HGNC Symbol;Acc:HGNC:29005]	1.10	1.10
RNA-SEQ-HUHTP40-336	2	ENSG00000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]	1.50	1.50
RNA-SEQ-HUHTP40-336	2	ENSG00000206936	RNU4-52P	RNA, U4 small nuclear 52, pseudogene [Source:HGNC Symbol;Acc:HGNC:46988]	1.46	1.46
RNA-SEQ-HUHTP40-337	2	ENSG00000171224	FAM241B	family with sequence similarity 241 member B [Source:HGNC Symbol;Acc:HGNC:23519]	1.53	1.53
RNA-SEQ-HUHTP40-337	2	ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]	2.02	2.02
RNA-SEQ-HUHTP40-338	5	ENSG00000164307	ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]	1.40	1.40
RNA-SEQ-HUHTP40-338	5	ENSG0000001036	FUCA2	alpha-L-fucosidase 2 [Source:HGNC Symbol;Acc:HGNC:4008]	0.85	0.85
RNA-SEQ-HUHTP40-338	5	ENSG00000114988	LMAN2L	lectin, mannose binding 2 like [Source:HGNC Symbol;Acc:HGNC:19263]	1.27	1.27
RNA-SEQ-HUHTP40-338	5	ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]	2.69	2.69

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					<i>Log₂ FC</i>	<i>Log₂ FC CYT ER</i>
				PTTG1IP	interacting protein [Source:HGNC Symbol;Acc:HGNC:13524]					
RNA-SEQ-HUHTP40-338	5	ENSG00000183255	PTTG1IP	PTTG1 interacting protein [Source:HGNC Symbol;Acc:HGNC:13524]					1.27	1.27
RNA-SEQ-HUHTP40-339	2	ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]					-0.19	-0.19
RNA-SEQ-HUHTP40-339	2	ENSG00000238444	RNU6-893P	RNA, U6 small nuclear 893, pseudogene [Source:HGNC Symbol;Acc:HGNC:47856]					-0.34	-0.34
RNA-SEQ-HUHTP40-340	4	ENSG00000242615		ribosomal protein L17 (RPL17) pseudogene					0.92	0.92
RNA-SEQ-HUHTP40-340	4	ENSG00000149485	FADS1	fatty acid desaturase 1 [Source:HGNC Symbol;Acc:HGNC:3574]					0.27	0.27
RNA-SEQ-HUHTP40-340	4	ENSG00000070759	TESK2	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]					1.12	1.12
RNA-SEQ-HUHTP40-340	4	ENSG00000251022	THAP9-AS1	THAP9 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44172]					1.35	1.35
RNA-SEQ-HUHTP40-341	2	ENSG00000129173	E2F8	E2F transcription factor 8 [Source:HGNC Symbol;Acc:HGNC:24727]					-2.03	-2.03
RNA-SEQ-HUHTP40-341	2	ENSG00000134240	HMGCS2	3-hydroxy-3-methylglutaryl-CoA synthase 2 [Source:HGNC Symbol;Acc:HGNC:5008]					-3.43	-3.43
RNA-SEQ-HUHTP40-342	2	ENSG00000141542	RAB40B	RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:18284]					-1.91	-1.91
RNA-SEQ-HUHTP40-342	2	ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]					-0.95	-0.95
RNA-SEQ-HUHTP40-343	4	ENSG00000237945	LINC00649	long intergenic non-protein coding RNA 649 [Source:HGNC Symbol;Acc:HGNC:44305]					-1.88	-1.88
RNA-SEQ-HUHTP40-343	4	ENSG00000239211	RN7SL563P	RNA, 7SL, cytoplasmic 563, pseudogene [Source:HGNC Symbol;Acc:HGNC:46579]					-1.55	-1.55
RNA-SEQ-HUHTP40-343	4	ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]					-1.63	-1.63
RNA-SEQ-HUHTP40-343	4	ENSG00000252996	RNU6-1315P	RNA, U6 small nuclear 1315, pseudogene [Source:HGNC Symbol;Acc:HGNC:48278]					-1.54	-1.54
RNA-SEQ-HUHTP40-344	2	ENSG00000100979	PLTP	phospholipid transfer protein [Source:HGNC Symbol;Acc:HGNC:9093]					1.22	1.22
RNA-SEQ-HUHTP40-344	2	ENSG00000112697	TMEM30A	transmembrane protein 30A [Source:HGNC Symbol;Acc:HGNC:16667]					0.79	0.79
RNA-SEQ-HUHTP40-345	2	ENSG00000066322	ELOVL1	ELOVL fatty acid elongase 1 [Source:HGNC Symbol;Acc:HGNC:14418]					0.95	0.95
RNA-SEQ-HUHTP40-345	2	ENSG00000109736	MFSD10	major facilitator superfamily domain containing 10 [Source:HGNC Symbol;Acc:HGNC:16894]					1.44	1.44
RNA-SEQ-HUHTP40-346	4	ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]					-0.53	-0.53
RNA-SEQ-HUHTP40-346	4	ENSG00000153885	KCTD15	potassium channel tetramerization domain containing 15 [Source:HGNC Symbol;Acc:HGNC:23297]					-0.76	-0.76
RNA-SEQ-HUHTP40-346	4	ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]					-1.59	-1.59
RNA-SEQ-HUHTP40-346	4	ENSG00000144792	ZNF660	zinc finger protein 660 [Source:HGNC Symbol;Acc:HGNC:26720]					-0.85	-0.85
RNA-SEQ-HUHTP40-347	3	ENSG00000213574	LDHAP5	lactate dehydrogenase A pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:6540]					-1.89	-1.89
RNA-SEQ-HUHTP40-347	3	ENSG00000054219	LY75	lymphocyte antigen 75 [Source:HGNC Symbol;Acc:HGNC:6729]					-2.33	-2.33
RNA-SEQ-HUHTP40-347	3	ENSG00000254827	SLC22A18AS	solute carrier family 22 member 18 antisense [Source:HGNC Symbol;Acc:HGNC:10965]					-2.06	-2.06
RNA-SEQ-HUHTP40-348	2	ENSG00000133739	LRRCC1	leucine rich repeat and coiled-coil centrosomal protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]					-1.71	-1.71
RNA-SEQ-HUHTP40-348	2	ENSG00000102312	PORCN	porcupine O-acyltransferase [Source:HGNC Symbol;Acc:HGNC:17652]					-2.68	-2.68
RNA-SEQ-HUHTP40-349	2	ENSG00000198886	MT-ND4	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4 [Source:HGNC Symbol;Acc:HGNC:7459]					3.97	3.97
RNA-SEQ-HUHTP40-349	2	ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]					1.95	1.95
RNA-SEQ-HUHTP40-350	2	ENSG00000174684	B4GAT1	beta-1,4-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]					-0.61	-0.61

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-350	2	ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]	-0.24	-0.24
RNA-SEQ-HUHTP40-351	3	ENSG00000120697	ALG5	ALG5, dolichyl-phosphate beta-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20266]	1.55	1.55
RNA-SEQ-HUHTP40-351	3	ENSG00000252294	RNU6-589P	RNA, U6 small nuclear 589, pseudogene [Source:HGNC Symbol;Acc:HGNC:47552]	1.83	1.83
RNA-SEQ-HUHTP40-351	3	ENSG00000176473	WDR25	WD repeat domain 25 [Source:HGNC Symbol;Acc:HGNC:21064]	1.73	1.73
RNA-SEQ-HUHTP40-352	2	ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	0.81	0.81
RNA-SEQ-HUHTP40-352	2	ENSG00000201901	RN7SKP48	RNA, 7SK small nuclear pseudogene 48 [Source:HGNC Symbol;Acc:HGNC:45772]	3.62	3.62
RNA-SEQ-HUHTP40-353	3	ENSG00000199285			-2.94	-2.94
RNA-SEQ-HUHTP40-353	3	ENSG00000199890			-2.80	-2.80
RNA-SEQ-HUHTP40-353	3	ENSG00000225531		MMRP19 pseudogene	-3.12	-3.12
RNA-SEQ-HUHTP40-354	3	ENSG00000137825	ITPKA	inositol-trisphosphate 3-kinase A [Source:HGNC Symbol;Acc:HGNC:6178]	-0.95	-0.95
RNA-SEQ-HUHTP40-354	3	ENSG00000204316	MRPL38	mitochondrial ribosomal protein L38 [Source:HGNC Symbol;Acc:HGNC:14033]	-1.12	-1.12
RNA-SEQ-HUHTP40-354	3	ENSG00000186193	SAPCD2	suppressor APC domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28055]	-0.93	-0.93
RNA-SEQ-HUHTP40-355	3	ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	-1.47	-1.47
RNA-SEQ-HUHTP40-355	3	ENSG00000212409	RNY4P18	RNA, Ro-associated Y4 pseudogene 18 [Source:HGNC Symbol;Acc:HGNC:34068]	-2.46	-2.46
RNA-SEQ-HUHTP40-355	3	ENSG00000154556	SORBS2	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24098]	-1.80	-1.80
RNA-SEQ-HUHTP40-356	3	ENSG00000200309			-2.05	-2.05
RNA-SEQ-HUHTP40-356	3	ENSG00000238516			-2.62	-2.62
RNA-SEQ-HUHTP40-356	3	ENSG00000280434		novel transcript, sense overlapping PARVB	-1.95	-1.95
RNA-SEQ-HUHTP40-357	2	ENSG00000131591	C1orf159	chromosome 1 open reading frame 159 [Source:HGNC Symbol;Acc:HGNC:26062]	0.73	0.73
RNA-SEQ-HUHTP40-357	2	ENSG00000103226	NOMO3	NODAL modulator 3 [Source:HGNC Symbol;Acc:HGNC:25242]	1.58	1.58
RNA-SEQ-HUHTP40-358	2	ENSG00000187867	PALM3	paralemmin 3 [Source:HGNC Symbol;Acc:HGNC:33274]	-2.46	-2.46
RNA-SEQ-HUHTP40-358	2	ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]	-1.64	-1.64
RNA-SEQ-HUHTP40-359	2	ENSG00000176273	SLC35G1	solute carrier family 35 member G1 [Source:HGNC Symbol;Acc:HGNC:26607]	-1.45	-1.45
RNA-SEQ-HUHTP40-359	2	ENSG00000180581	SRP9P1	signal recognition particle 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23402]	-0.86	-0.86
RNA-SEQ-HUHTP40-360	4	ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	2.32	2.32
RNA-SEQ-HUHTP40-360	4	ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	2.81	2.81
RNA-SEQ-HUHTP40-360	4	ENSG00000148154	UGCG	UDP-glucose ceramide glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:12524]	1.64	1.64
RNA-SEQ-HUHTP40-360	4	ENSG00000133624	ZNF767P	zinc finger family member 767, pseudogene [Source:HGNC Symbol;Acc:HGNC:21884]	3.08	3.08
RNA-SEQ-HUHTP40-361	3	ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	-0.23	-0.23
RNA-SEQ-HUHTP40-361	3	ENSG00000223229	RN7SKP270	RNA, 7SK small nuclear pseudogene 270 [Source:HGNC Symbol;Acc:HGNC:45994]	-0.33	-0.33
RNA-SEQ-HUHTP40-361	3	ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]	-0.42	-0.42

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC
								CYT	ER	
RNA-SEQ-HUHTP40-362	2	ENSG00000229656	ITGB1-DT	ITGB1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:53718]				Sym-	1.58	1.58
RNA-SEQ-HUHTP40-362	2	ENSG00000143669	LYST	lysosomal trafficking regulator [Source:HGNC Symbol;Acc:HGNC:1968]				Sym-	0.81	0.81
RNA-SEQ-HUHTP40-363	5	ENSG00000204682	CASC10	cancer susceptibility 10 [Source:HGNC Symbol;Acc:HGNC:31448]				Sym-	-1.56	-1.56
RNA-SEQ-HUHTP40-363	5	ENSG00000231764	DLX6-AS1	DLX6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:37151]				Sym-	-1.87	-1.87
RNA-SEQ-HUHTP40-363	5	ENSG00000250182	EEF1A1P13	eukaryotic translation elongation factor 1 alpha 1 pseudogene 13 [Source:HGNC Symbol;Acc:HGNC:3196]					-1.51	-1.51
RNA-SEQ-HUHTP40-363	5	ENSG00000100034	PPM1F	protein phosphatase, Mg2+/Mn2+ dependent 1F [Source:HGNC Symbol;Acc:HGNC:19388]					-0.92	-0.92
RNA-SEQ-HUHTP40-363	5	ENSG00000145248	SLC10A4	solute carrier family 10 member 4 [Source:HGNC Symbol;Acc:HGNC:22980]					-2.14	-2.14
RNA-SEQ-HUHTP40-364	3	ENSG00000133983	COX16	cytochrome c oxidase assembly factor COX16 [Source:HGNC Symbol;Acc:HGNC:20213]					-2.57	-2.57
RNA-SEQ-HUHTP40-364	3	ENSG00000223529	EEF1A1P8	eukaryotic translation elongation factor 1 alpha 1 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:3203]					-3.54	-3.54
RNA-SEQ-HUHTP40-364	3	ENSG00000118733	OLFM3	olfactomedin 3 [Source:HGNC Symbol;Acc:HGNC:17990]					-2.84	-2.84
RNA-SEQ-HUHTP40-365	2	ENSG00000278898		TEC					-0.89	-0.89
RNA-SEQ-HUHTP40-365	2	ENSG00000199731	RNU6-1079P	RNA, U6 small nuclear 1079, pseudogene [Source:HGNC Symbol;Acc:HGNC:48042]					-0.77	-0.77
RNA-SEQ-HUHTP40-366	3	ENSG00000175984	DENN2C	DENN domain containing 2C [Source:HGNC Symbol;Acc:HGNC:24748]					-1.65	-1.65
RNA-SEQ-HUHTP40-366	3	ENSG00000144852	NR1I2	nuclear receptor subfamily 1 group I member 2 [Source:HGNC Symbol;Acc:HGNC:7968]					-2.30	-2.30
RNA-SEQ-HUHTP40-366	3	ENSG00000205871	RPS3AP47	ribosomal protein S3a pseudogene 47 [Source:HGNC Symbol;Acc:HGNC:36744]					-2.39	-2.39
RNA-SEQ-HUHTP40-367	5	ENSG00000215154							2.69	2.69
RNA-SEQ-HUHTP40-367	5	ENSG00000267620		general transcription factor IIH, polypeptide 1, 62kDa pseudogene					1.72	1.72
RNA-SEQ-HUHTP40-367	5	ENSG00000196526	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24017]					3.44	3.44
RNA-SEQ-HUHTP40-367	5	ENSG00000125734	GPR108	G protein-coupled receptor 108 [Source:HGNC Symbol;Acc:HGNC:17829]					1.47	1.47
RNA-SEQ-HUHTP40-367	5	ENSG00000252521	RNU5D-2P	RNA, U5D small nuclear 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:42534]					2.61	2.61
RNA-SEQ-HUHTP40-368	5	ENSG00000134343	ANO3	anoctamin 3 [Source:HGNC Symbol;Acc:HGNC:14004]					2.07	2.07
RNA-SEQ-HUHTP40-368	5	ENSG00000280670	CCDC163	coiled-coil domain containing 163 [Source:HGNC Symbol;Acc:HGNC:27003]					1.60	1.60
RNA-SEQ-HUHTP40-368	5	ENSG00000185467	KPNA7	karyopherin subunit alpha 7 [Source:HGNC Symbol;Acc:HGNC:21839]					1.51	1.51
RNA-SEQ-HUHTP40-368	5	ENSG00000139370	SLC15A4	solute carrier family 15 member 4 [Source:HGNC Symbol;Acc:HGNC:23090]					1.50	1.50
RNA-SEQ-HUHTP40-368	5	ENSG00000158062	UBXN11	UBX domain protein 11 [Source:HGNC Symbol;Acc:HGNC:30600]					1.46	1.46
RNA-SEQ-HUHTP40-369	2	ENSG00000135127	BICDL1	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]					-0.85	-0.85
RNA-SEQ-HUHTP40-369	2	ENSG00000141738	GRB7	growth factor receptor bound protein 7 [Source:HGNC Symbol;Acc:HGNC:4567]					-2.71	-2.71
RNA-SEQ-HUHTP40-370	3	ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]					0.84	0.84
RNA-SEQ-HUHTP40-370	3	ENSG00000198840	MT-ND3	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3 [Source:HGNC Symbol;Acc:HGNC:7458]					4.41	4.41
RNA-SEQ-HUHTP40-370	3	ENSG00000212907	MT-ND4L	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4L [Source:HGNC Symbol;Acc:HGNC:7460]					3.14	3.14
RNA-SEQ-HUHTP40-371	2	ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]					0.55	0.55

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-371	2	ENSG00000262074	SNORD3B-2	small nucleolar RNA, C/D box 3B-2 [Source:HGNC Symbol;Acc:HGNC:33190]	5.19	5.19
RNA-SEQ-HUHTP40-372	6	ENSG00000231416		ribosomal protein L34 (RPL34) pseudogene	-0.99	-0.99
RNA-SEQ-HUHTP40-372	6	ENSG00000244062		acyl-CoA synthetase long-chain family member 3 (ACSL3) pseudogene	-1.72	-1.72
RNA-SEQ-HUHTP40-372	6	ENSG00000255468			-0.91	-0.91
RNA-SEQ-HUHTP40-372	6	ENSG00000279738		novel transcript, sense overlapping to EIF3L	-1.16	-1.16
RNA-SEQ-HUHTP40-372	6	ENSG00000198771	RCSD1	RCSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28310]	-1.34	-1.34
RNA-SEQ-HUHTP40-372	6	ENSG00000238561	RNU6ATAC28P	RNA, U6atac small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:46927]	-0.75	-0.75
RNA-SEQ-HUHTP40-373	3	ENSG00000202144			-2.50	-2.50
RNA-SEQ-HUHTP40-373	3	ENSG00000214485	RPL7P1	ribosomal protein L7 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10367]	-2.93	-2.93
RNA-SEQ-HUHTP40-373	3	ENSG00000180089	TMEM86B	transmembrane protein 86B [Source:HGNC Symbol;Acc:HGNC:28448]	-2.46	-2.46
RNA-SEQ-HUHTP40-374	3	ENSG00000261114		novel transcript, sense intronic to HERPUD1	1.71	1.71
RNA-SEQ-HUHTP40-374	3	ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]	1.57	1.57
RNA-SEQ-HUHTP40-374	3	ENSG00000165282	PIGO	phosphatidylinositol glycan anchor biosynthesis class O [Source:HGNC Symbol;Acc:HGNC:23215]	1.26	1.26
RNA-SEQ-HUHTP40-375	3	ENSG00000155254	MARVELD1	MARVEL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28674]	-1.03	-1.03
RNA-SEQ-HUHTP40-375	3	ENSG00000099999	RNF215	ring finger protein 215 [Source:HGNC Symbol;Acc:HGNC:33434]	-1.33	-1.33
RNA-SEQ-HUHTP40-375	3	ENSG00000207115	RNU6-364P	RNA, U6 small nuclear 364, pseudogene [Source:HGNC Symbol;Acc:HGNC:47327]	-0.58	-0.58
RNA-SEQ-HUHTP40-376	6	ENSG00000199366			-3.22	-3.22
RNA-SEQ-HUHTP40-376	6	ENSG00000200651			-3.16	-3.16
RNA-SEQ-HUHTP40-376	6	ENSG00000200834			-3.03	-3.03
RNA-SEQ-HUHTP40-376	6	ENSG00000202357			-2.24	-2.24
RNA-SEQ-HUHTP40-376	6	ENSG00000251411		actin related protein 2/3 complex, subunit 1A, 41kDa (ARPC1A) pseudogene	-3.70	-3.70
RNA-SEQ-HUHTP40-376	6	ENSG00000252652			-1.96	-1.96
RNA-SEQ-HUHTP40-377	11	ENSG00000186076		phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene	-2.99	-2.99
RNA-SEQ-HUHTP40-377	11	ENSG00000250348		novel transcript	-3.56	-3.56
RNA-SEQ-HUHTP40-377	11	ENSG0000023892	DEF6	DEF6, guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:2760]	-2.42	-2.42
RNA-SEQ-HUHTP40-377	11	ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]	-1.90	-1.90
RNA-SEQ-HUHTP40-377	11	ENSG00000226608	FTLP3	ferritin light chain pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:4000]	-1.49	-1.49
RNA-SEQ-HUHTP40-377	11	ENSG00000102781	KATNAL1	katanin catalytic subunit A1 like 1 [Source:HGNC Symbol;Acc:HGNC:28361]	-2.02	-2.02
RNA-SEQ-HUHTP40-377	11	ENSG00000167355	OR51B5	olfactory receptor family 51 subfamily B member 5 [Source:HGNC Symbol;Acc:HGNC:19599]	-2.92	-2.92
RNA-SEQ-HUHTP40-377	11	ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	-2.45	-2.45
RNA-SEQ-HUHTP40-377	11	ENSG00000102125	TAZ	tafazzin [Source:HGNC Symbol;Acc:HGNC:11577]	-0.90	-0.90

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
							ER
RNA-SEQ-HUHTP40-377	11	ENSG0000073905	VDAC1P1	voltage dependent anion channel 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:12671]	1	-1.72	-1.72
RNA-SEQ-HUHTP40-377	11	ENSG0000163032	VSNL1	visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]		-2.23	-2.23
RNA-SEQ-HUHTP40-378	2	ENSG0000199691	RN7SKP173	RNA, 7SK small nuclear pseudogene 173 [Source:HGNC Symbol;Acc:HGNC:45897]	0.46	0.46	
RNA-SEQ-HUHTP40-378	2	ENSG0000140391	TSPAN3	tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]	0.35	0.35	
RNA-SEQ-HUHTP40-379	7	ENSG0000206822				-3.13	-3.13
RNA-SEQ-HUHTP40-379	7	ENSG0000163501	IHH	indian hedgehog [Source:HGNC Symbol;Acc:HGNC:5956]		-2.48	-2.48
RNA-SEQ-HUHTP40-379	7	ENSG0000065057	NTHL1	nth like DNA glycosylase 1 [Source:HGNC Symbol;Acc:HGNC:8028]	1	-2.75	-2.75
RNA-SEQ-HUHTP40-379	7	ENSG0000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]		-1.73	-1.73
RNA-SEQ-HUHTP40-379	7	ENSG0000201955	RNY3P1	RNA, Ro-associated Y3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42477]		-3.26	-3.26
RNA-SEQ-HUHTP40-379	7	ENSG0000183298	RPSAP19	ribosomal protein SA pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:36508]		-2.53	-2.53
RNA-SEQ-HUHTP40-379	7	ENSG0000051596	THOC3	THO complex 3 [Source:HGNC Symbol;Acc:HGNC:19072]		-2.75	-2.75
RNA-SEQ-HUHTP40-380	2	ENSG0000239467		glutamate rich 2 [Source:NCBI gene;Acc:285141]		2.48	2.48
RNA-SEQ-HUHTP40-380	2	ENSG0000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]		2.44	2.44
RNA-SEQ-HUHTP40-381	3	ENSG0000200737				-2.32	-2.32
RNA-SEQ-HUHTP40-381	3	ENSG0000151743	AMN1	antagonist of mitotic exit network 1 homolog [Source:HGNC Symbol;Acc:HGNC:27281]		-1.87	-1.87
RNA-SEQ-HUHTP40-381	3	ENSG0000239731	RN7SL825P	RNA, 7SL, cytoplasmic 825, pseudogene [Source:HGNC Symbol;Acc:HGNC:46841]		-1.76	-1.76
RNA-SEQ-HUHTP40-382	3	ENSG0000250144		eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) pseudogene		-2.61	-2.61
RNA-SEQ-HUHTP40-382	3	ENSG0000245205	EEF1A1P4	eukaryotic translation elongation factor 1 alpha 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:3199]		-1.98	-1.98
RNA-SEQ-HUHTP40-382	3	ENSG0000175066	GK5	glycerol kinase 5 [Source:HGNC Symbol;Acc:HGNC:28635]		-2.01	-2.01
RNA-SEQ-HUHTP40-383	3	ENSG0000076555	ACACB	acetyl-CoA carboxylase beta [Source:HGNC Symbol;Acc:HGNC:85]		-0.30	-0.30
RNA-SEQ-HUHTP40-383	3	ENSG0000070718	AP3M2	adaptor related protein complex 3 subunit mu 2 [Source:HGNC Symbol;Acc:HGNC:570]		-0.74	-0.74
RNA-SEQ-HUHTP40-383	3	ENSG0000226803	ZNF451-AS1	ZNF451 regulatory antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:53824]		-0.60	-0.60
RNA-SEQ-HUHTP40-384	3	ENSG0000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]		1.74	1.74
RNA-SEQ-HUHTP40-384	3	ENSG0000117479	SLC19A2	solute carrier family 19 member 2 [Source:HGNC Symbol;Acc:HGNC:10938]		0.54	0.54
RNA-SEQ-HUHTP40-384	3	ENSG0000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]		1.28	1.28
RNA-SEQ-HUHTP40-385	3	ENSG0000278701				0.06	0.06
RNA-SEQ-HUHTP40-385	3	ENSG0000164002	EXO5	exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:26115]		-0.31	-0.31
RNA-SEQ-HUHTP40-385	3	ENSG0000099953	MMP11	matrix metallopeptidase 11 [Source:HGNC Symbol;Acc:HGNC:7157]		-0.50	-0.50
RNA-SEQ-HUHTP40-386	2	ENSG0000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]		0.49	0.49
RNA-SEQ-HUHTP40-386	2	ENSG0000207005	RNU1-2	RNA, U1 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10123]		5.54	5.54
RNA-SEQ-HUHTP40-387	4	ENSG0000276588	RN7SL322P	RNA, 7SL, cytoplasmic 322, pseudogene [Source:HGNC Symbol;Acc:HGNC:46338]		-1.88	-1.88

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-387	4	ENSG00000239224	RN7SL546P	RNA, 7SL, cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]	-2.42	-2.42
RNA-SEQ-HUHTP40-387	4	ENSG00000143643	TTC13	tetratricopeptide repeat domain 13 [Source:HGNC Symbol;Acc:HGNC:26204]	-1.64	-1.64
RNA-SEQ-HUHTP40-387	4	ENSG00000260389	WBP11P1	WW domain binding protein 11 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:26250]	-2.67	-2.67
RNA-SEQ-HUHTP40-388	5	ENSG00000105173	CCNE1	cyclin E1 [Source:HGNC Symbol;Acc:HGNC:1589]	-1.60	-1.60
RNA-SEQ-HUHTP40-388	5	ENSG00000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]	-1.01	-1.01
RNA-SEQ-HUHTP40-388	5	ENSG00000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]	-1.31	-1.31
RNA-SEQ-HUHTP40-388	5	ENSG00000128294	TPST2	tyrosylprotein sulfotransferase 2 [Source:HGNC Symbol;Acc:HGNC:12021]	-1.59	-1.59
RNA-SEQ-HUHTP40-388	5	ENSG00000197937	ZNF347	zinc finger protein 347 [Source:HGNC Symbol;Acc:HGNC:16447]	-0.49	-0.49
RNA-SEQ-HUHTP40-389	2	ENSG00000142686	C1orf216	chromosome 1 open reading frame 216 [Source:HGNC Symbol;Acc:HGNC:26800]	-0.68	-0.68
RNA-SEQ-HUHTP40-389	2	ENSG00000165376	CLDN2	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	-1.72	-1.72
RNA-SEQ-HUHTP40-390	6	ENSG00000111275	ALDH2	aldehyde dehydrogenase 2 family member [Source:HGNC Symbol;Acc:HGNC:404]	-1.57	-1.57
RNA-SEQ-HUHTP40-390	6	ENSG00000080819	CPOX	coproporphyrinogen oxidase [Source:HGNC Symbol;Acc:HGNC:2321]	-1.77	-1.77
RNA-SEQ-HUHTP40-390	6	ENSG00000282100	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene [Source:HGNC Symbol;Acc:HGNC:32538]	-1.88	-1.88
RNA-SEQ-HUHTP40-390	6	ENSG00000053702	NRIP2	nuclear receptor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:23078]	-2.14	-2.14
RNA-SEQ-HUHTP40-390	6	ENSG00000138315	OIT3	oncoprotein induced transcript 3 [Source:HGNC Symbol;Acc:HGNC:29953]	-1.60	-1.60
RNA-SEQ-HUHTP40-390	6	ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]	-2.00	-2.00
RNA-SEQ-HUHTP40-391	4	ENSG00000135744	AGT	angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]	1.49	1.49
RNA-SEQ-HUHTP40-391	4	ENSG00000051523	CYBA	cytochrome b-245 alpha chain [Source:HGNC Symbol;Acc:HGNC:2577]	0.73	0.73
RNA-SEQ-HUHTP40-391	4	ENSG00000110169	HPX	hemopexin [Source:HGNC Symbol;Acc:HGNC:5171]	1.29	1.29
RNA-SEQ-HUHTP40-391	4	ENSG00000117385	P3H1	prolyl 3-hydroxylase 1 [Source:HGNC Symbol;Acc:HGNC:19316]	1.54	1.54
RNA-SEQ-HUHTP40-392	5	ENSG00000143753	DEGS1	delta 4-desaturase, sphingolipid 1 [Source:HGNC Symbol;Acc:HGNC:13709]	2.40	2.40
RNA-SEQ-HUHTP40-392	5	ENSG00000227500	SCAMP4	secretory carrier membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:30385]	1.41	1.41
RNA-SEQ-HUHTP40-392	5	ENSG00000141424	SLC39A6	solute carrier family 39 member 6 [Source:HGNC Symbol;Acc:HGNC:18607]	0.98	0.98
RNA-SEQ-HUHTP40-392	5	ENSG00000132639	SNAP25	synaptosome associated protein 25 [Source:HGNC Symbol;Acc:HGNC:11132]	3.39	3.39
RNA-SEQ-HUHTP40-392	5	ENSG00000214063	TSPAN4	tetraspanin 4 [Source:HGNC Symbol;Acc:HGNC:11859]	1.21	1.21
RNA-SEQ-HUHTP40-393	4	ENSG00000164946	FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:HGNC:23399]	-1.23	-1.23
RNA-SEQ-HUHTP40-393	4	ENSG00000261701	HPR	haptoglobin-related protein [Source:HGNC Symbol;Acc:HGNC:5156]	-1.92	-1.92
RNA-SEQ-HUHTP40-393	4	ENSG00000107742	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2 [Source:HGNC Symbol;Acc:HGNC:13564]	-1.55	-1.55
RNA-SEQ-HUHTP40-393	4	ENSG00000213866	YBX1P10	Y-box binding protein 1 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:42432]	-2.17	-2.17
RNA-SEQ-HUHTP40-394	3	ENSG00000146090	RASGEF1C	RasGEF domain family member 1C [Source:HGNC Symbol;Acc:HGNC:27400]	1.36	1.36
RNA-SEQ-HUHTP40-394	3	ENSG00000207083	RNU6-22P	RNA, U6 small nuclear 22, pseudogene [Source:HGNC Symbol;Acc:HGNC:34266]	0.47	0.47

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
							ER
RNA-SEQ-HUHTP40-394	3	ENSG0000036672	USP2	ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:12618]	1.12		1.12
RNA-SEQ-HUHTP40-395	2	ENSG0000147257	GPC3	glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]	0.83		0.83
RNA-SEQ-HUHTP40-395	2	ENSG0000198763	MT-ND2	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 2 [Source:HGNC Symbol;Acc:HGNC:7456]	3.75		3.75
RNA-SEQ-HUHTP40-396	5	ENSG0000201644			-0.95		-0.95
RNA-SEQ-HUHTP40-396	5	ENSG0000207142			-3.07		-3.07
RNA-SEQ-HUHTP40-396	5	ENSG0000207293			-3.26		-3.26
RNA-SEQ-HUHTP40-396	5	ENSG0000199827	RNU6-1290P	RNA, U6 small nuclear 1290, pseudogene [Source:HGNC Symbol;Acc:HGNC:48253]	-1.91		-1.91
RNA-SEQ-HUHTP40-396	5	ENSG0000256338	RPL41P2	ribosomal protein L41 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:10357]	-2.38		-2.38
RNA-SEQ-HUHTP40-397	2	ENSG0000198841	KTL12	KTL12 chromatin associated homolog [Source:HGNC Symbol;Acc:HGNC:25160]	1.23		1.23
RNA-SEQ-HUHTP40-397	2	ENSG0000177666	PNPLA2	patatin like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30802]	0.50		0.50
RNA-SEQ-HUHTP40-398	3	ENSG0000092853	CLSPN	claspin [Source:HGNC Symbol;Acc:HGNC:19715]	-1.61		-1.61
RNA-SEQ-HUHTP40-398	3	ENSG0000154822	PLCL2	phospholipase C like 2 [Source:HGNC Symbol;Acc:HGNC:9064]	-2.07		-2.07
RNA-SEQ-HUHTP40-398	3	ENSG0000241015	TPM3P9	tropomyosin 3 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:44142]	-1.76		-1.76
RNA-SEQ-HUHTP40-399	4	ENSG0000266651		novel transcript	-2.83		-2.83
RNA-SEQ-HUHTP40-399	4	ENSG0000113209	PCDHB5	protocadherin beta 5 [Source:HGNC Symbol;Acc:HGNC:8690]	-2.27		-2.27
RNA-SEQ-HUHTP40-399	4	ENSG0000185361	TNFAIP8L1	TNF alpha induced protein 8 like 1 [Source:HGNC Symbol;Acc:HGNC:28279]	-1.92		-1.92
RNA-SEQ-HUHTP40-399	4	ENSG0000259248	USP3-AS1	USP3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44140]	-2.90		-2.90
RNA-SEQ-HUHTP40-400	4	ENSG0000081051	AFP	alpha fetoprotein [Source:HGNC Symbol;Acc:HGNC:317]	-0.42		-0.42
RNA-SEQ-HUHTP40-400	4	ENSG0000108602	ALDH3A1	aldehyde dehydrogenase 3 family member A1 [Source:HGNC Symbol;Acc:HGNC:405]	-0.62		-0.62
RNA-SEQ-HUHTP40-400	4	ENSG0000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]	-0.10		-0.10
RNA-SEQ-HUHTP40-400	4	ENSG0000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	-0.51		-0.51
RNA-SEQ-HUHTP40-401	2	ENSG0000206651			-2.92		-2.92
RNA-SEQ-HUHTP40-401	2	ENSG0000146233	CYP39A1	cytochrome P450 family 39 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:17449]	-1.77		-1.77
RNA-SEQ-HUHTP40-402	7	ENSG0000002330	BAD	BCL2 associated agonist of cell death [Source:HGNC Symbol;Acc:HGNC:936]	-0.69		-0.69
RNA-SEQ-HUHTP40-402	7	ENSG0000241399	CD302	CD302 molecule [Source:HGNC Symbol;Acc:HGNC:30843]	-0.55		-0.55
RNA-SEQ-HUHTP40-402	7	ENSG0000165556	CDX2	caudal type homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1806]	-1.13		-1.13
RNA-SEQ-HUHTP40-402	7	ENSG0000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]	-0.51		-0.51
RNA-SEQ-HUHTP40-402	7	ENSG0000110400	NECTIN1	nectin cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:9706]	-1.01		-1.01
RNA-SEQ-HUHTP40-402	7	ENSG0000232838	PET117	PET117 homolog [Source:HGNC Symbol;Acc:HGNC:40045]	-0.80		-0.80
RNA-SEQ-HUHTP40-402	7	ENSG0000105289	TJP3	tight junction protein 3 [Source:HGNC Symbol;Acc:HGNC:11829]	-0.39		-0.39
RNA-SEQ-HUHTP40-403	3	ENSG0000104880	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]	1.78		1.78

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-403	3	ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]	0.58	0.58
RNA-SEQ-HUHTP40-403	3	ENSG00000215252	GOLGA8B	golgin A8 family member B [Source:HGNC Symbol;Acc:HGNC:31973]	2.17	2.17
RNA-SEQ-HUHTP40-404	3	ENSG00000240306	RN7SL100P	RNA, 7SL, cytoplasmic 100, pseudogene [Source:HGNC Symbol;Acc:HGNC:46116]	-1.51	-1.51
RNA-SEQ-HUHTP40-404	3	ENSG00000239899	RN7SL674P	RNA, 7SL, cytoplasmic 674, pseudogene [Source:HGNC Symbol;Acc:HGNC:46690]	-1.62	-1.62
RNA-SEQ-HUHTP40-404	3	ENSG00000234272	RPL30P2	ribosomal protein L30 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:35642]	-1.67	-1.67
RNA-SEQ-HUHTP40-405	2	ENSG00000253846	PCDHGA10	protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]	-0.39	-0.39
RNA-SEQ-HUHTP40-405	2	ENSG00000228462	RPS19P7	ribosomal protein S19 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:35550]	-0.50	-0.50
RNA-SEQ-HUHTP40-406	4	ENSG00000198899	MT-ATP6	mitochondrially encoded ATP synthase membrane subunit 6 [Source:HGNC Symbol;Acc:HGNC:7414]	3.48	3.48
RNA-SEQ-HUHTP40-406	4	ENSG00000198804	MT-CO1	mitochondrially encoded cytochrome c oxidase I [Source:HGNC Symbol;Acc:HGNC:7419]	4.40	4.40
RNA-SEQ-HUHTP40-406	4	ENSG00000198938	MT-CO3	mitochondrially encoded cytochrome c oxidase III [Source:HGNC Symbol;Acc:HGNC:7422]	4.14	4.14
RNA-SEQ-HUHTP40-406	4	ENSG00000133135	RNF128	ring finger protein 128, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:21153]	0.81	0.81
RNA-SEQ-HUHTP40-407	3	ENSG00000173702	MUC13	mucin 13, cell surface associated [Source:HGNC Symbol;Acc:HGNC:7511]	0.02	0.02
RNA-SEQ-HUHTP40-407	3	ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]	0.33	0.33
RNA-SEQ-HUHTP40-407	3	ENSG00000163536	SERPINI1	serpin family I member 1 [Source:HGNC Symbol;Acc:HGNC:8943]	-0.17	-0.17
RNA-SEQ-HUHTP40-408	3	ENSG00000153237	CCDC148	coiled-coil domain containing 148 [Source:HGNC Symbol;Acc:HGNC:25191]	1.53	1.53
RNA-SEQ-HUHTP40-408	3	ENSG00000222465	RNU2-5P	RNA, U2 small nuclear 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10155]	0.57	0.57
RNA-SEQ-HUHTP40-408	3	ENSG00000201998	SNORA23	small nucleolar RNA, H/ACA box 23 [Source:HGNC Symbol;Acc:HGNC:32613]	0.95	0.95
RNA-SEQ-HUHTP40-409	4	ENSG00000118507	AKAP7	A-kinase anchoring protein 7 [Source:HGNC Symbol;Acc:HGNC:377]	-0.27	-0.27
RNA-SEQ-HUHTP40-409	4	ENSG00000196739	COL27A1	collagen type XXVII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22986]	0.21	0.21
RNA-SEQ-HUHTP40-409	4	ENSG00000180921	FAM83H	family with sequence similarity 83 member H [Source:HGNC Symbol;Acc:HGNC:24797]	0.22	0.22
RNA-SEQ-HUHTP40-409	4	ENSG00000102996	MMP15	matrix metallopeptidase 15 [Source:HGNC Symbol;Acc:HGNC:7161]	-0.21	-0.21
RNA-SEQ-HUHTP40-410	3	ENSG00000271394				1.09
RNA-SEQ-HUHTP40-410	3	ENSG00000279123		novel transcript		1.06
RNA-SEQ-HUHTP40-410	3	ENSG00000202304	RNU6-1130P	RNA, U6 small nuclear 1130, pseudogene [Source:HGNC Symbol;Acc:HGNC:48093]	0.18	0.18
RNA-SEQ-HUHTP40-411	2	ENSG00000166997	CNPY4	canopy FGF signaling regulator 4 [Source:HGNC Symbol;Acc:HGNC:28631]	-0.21	-0.21
RNA-SEQ-HUHTP40-411	2	ENSG00000150893	FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:25396]	0.14	0.14
RNA-SEQ-HUHTP40-412	3	ENSG00000260668		emopamil binding protein-like (EBPL) pseudogene	-0.99	-0.99
RNA-SEQ-HUHTP40-412	3	ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]	-0.69	-0.69
RNA-SEQ-HUHTP40-412	3	ENSG00000173262	SLC2A14	solute carrier family 2 member 14 [Source:HGNC Symbol;Acc:HGNC:18301]	-1.16	-1.16
RNA-SEQ-HUHTP40-413	4	ENSG00000200314			-3.43	-3.43
RNA-SEQ-HUHTP40-413	4	ENSG00000200494			-3.24	-3.24

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHTP40-413	4	ENSG00000217648		pseudogene similar to presenilin associated, rhomboid-like PPAR	-1.99	-1.99
RNA-SEQ-HUHTP40-413	4	ENSG00000252982	RN7SKP234	RNA, 7SK small nuclear pseudogene 234 [Source:HGNC Symbol;Acc:HGNC:45958]	-0.92	-0.92
RNA-SEQ-HUHTP40-414	8	ENSG00000079112	CDH17	cadherin 17 [Source:HGNC Symbol;Acc:HGNC:1756]	0.24	0.24
RNA-SEQ-HUHTP40-414	8	ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]	0.05	0.05
RNA-SEQ-HUHTP40-414	8	ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]	0.23	0.23
RNA-SEQ-HUHTP40-414	8	ENSG00000222974	RN7SKP228	RNA, 7SK small nuclear pseudogene 228 [Source:HGNC Symbol;Acc:HGNC:45952]	0.38	0.38
RNA-SEQ-HUHTP40-414	8	ENSG00000223117	RN7SKP296	RNA, 7SK small nuclear pseudogene 296 [Source:HGNC Symbol;Acc:HGNC:46020]	0.43	0.43
RNA-SEQ-HUHTP40-414	8	ENSG00000200379	RN7SKP45	RNA, 7SK small nuclear pseudogene 45 [Source:HGNC Symbol;Acc:HGNC:45769]	0.08	0.08
RNA-SEQ-HUHTP40-414	8	ENSG00000201758	RN7SKP55	RNA, 7SK small nuclear pseudogene 55 [Source:HGNC Symbol;Acc:HGNC:45779]	0.26	0.26
RNA-SEQ-HUHTP40-414	8	ENSG00000207507	RNU6-9	RNA, U6 small nuclear 9 [Source:HGNC Symbol;Acc:HGNC:34269]	-0.11	-0.11
RNA-SEQ-HUHTP40-415	4	ENSG00000148219	ASTN2	astrotactin 2 [Source:HGNC Symbol;Acc:HGNC:17021]	-1.99	-1.99
RNA-SEQ-HUHTP40-415	4	ENSG00000243495	GMFBP1	glia maturation factor beta pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:38654]	-1.85	-1.85
RNA-SEQ-HUHTP40-415	4	ENSG00000241959	RN7SL76P	RNA, 7SL, cytoplasmic 76, pseudogene [Source:HGNC Symbol;Acc:HGNC:46092]	-1.88	-1.88
RNA-SEQ-HUHTP40-415	4	ENSG00000198346	ZNF813	zinc finger protein 813 [Source:HGNC Symbol;Acc:HGNC:33257]	-0.76	-0.76
RNA-SEQ-HUHTP40-416	6	ENSG00000273297			-1.16	-1.16
RNA-SEQ-HUHTP40-416	6	ENSG00000163586	FABP1	fatty acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:3555]	-2.05	-2.05
RNA-SEQ-HUHTP40-416	6	ENSG00000234155	LINC02535	long intergenic non-protein coding RNA 2535 [Source:HGNC Symbol;Acc:HGNC:53569]	-1.93	-1.93
RNA-SEQ-HUHTP40-416	6	ENSG00000165471	MBL2	mannose binding lectin 2 [Source:HGNC Symbol;Acc:HGNC:6922]	-1.81	-1.81
RNA-SEQ-HUHTP40-416	6	ENSG00000108187	PBLD	phenazine biosynthesis like protein domain containing [Source:HGNC Symbol;Acc:HGNC:23301]	-2.40	-2.40
RNA-SEQ-HUHTP40-416	6	ENSG00000206625	RNU6-1	RNA, U6 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10227]	-0.74	-0.74

Table 16: Co-expressed gene clusters (RNA-Seq, Huh7, 40h PI)

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUALLTP-001	2	ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]		
RNA-SEQ-HUALLTP-001	2	ENSG00000121073	SLC35B1	solute carrier family 35 member B1 [Source:HGNC Symbol;Acc:HGNC:20798]		
RNA-SEQ-HUALLTP-002	2	ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]		
RNA-SEQ-HUALLTP-002	2	ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]		
RNA-SEQ-HUALLTP-003	2	ENSG00000222974	RN7SKP228	RNA, 7SK small nuclear pseudogene 228 [Source:HGNC Symbol;Acc:HGNC:45952]		
RNA-SEQ-HUALLTP-003	2	ENSG00000200243	RN7SKP79	RNA, 7SK small nuclear pseudogene 79 [Source:HGNC Symbol;Acc:HGNC:45803]		
RNA-SEQ-HUALLTP-004	3	ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-004	3	ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]		Sym-
RNA-SEQ-HUHALLTP-004	3	ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]		Sym-
RNA-SEQ-HUHALLTP-005	3	ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]		Sym-
RNA-SEQ-HUHALLTP-005	3	ENSG00000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]		
RNA-SEQ-HUHALLTP-005	3	ENSG00000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]		
RNA-SEQ-HUHALLTP-006	2	ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]		Sym-
RNA-SEQ-HUHALLTP-006	2	ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]		Sym-
RNA-SEQ-HUHALLTP-007	2	ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]		
RNA-SEQ-HUHALLTP-007	2	ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]		
RNA-SEQ-HUHALLTP-008	2	ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]		
RNA-SEQ-HUHALLTP-008	2	ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]		Sym-
RNA-SEQ-HUHALLTP-009	3	ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]		Sym-
RNA-SEQ-HUHALLTP-009	3	ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]		Sym-
RNA-SEQ-HUHALLTP-009	3	ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]		Sym-
RNA-SEQ-HUHALLTP-010	2	ENSG00000135744	AGT	angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]		
RNA-SEQ-HUHALLTP-010	2	ENSG00000136026	CKAP4	cytoskeleton associated protein 4 [Source:HGNC Symbol;Acc:HGNC:16991]		Sym-
RNA-SEQ-HUHALLTP-011	3	ENSG00000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]		
RNA-SEQ-HUHALLTP-011	3	ENSG00000150093	ITGB1	integrin subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:6153]		Sym-
RNA-SEQ-HUHALLTP-011	3	ENSG00000151176	PLBD2	phospholipase B domain containing 2 [Source:HGNC Symbol;Acc:HGNC:27283]		Sym-
RNA-SEQ-HUHALLTP-012	3	ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]		Sym-
RNA-SEQ-HUHALLTP-012	3	ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]		Sym-
RNA-SEQ-HUHALLTP-012	3	ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]		Sym-
RNA-SEQ-HUHALLTP-013	2	ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]		Sym-
RNA-SEQ-HUHALLTP-013	2	ENSG00000117523	PRRC2C	proline rich coiled-coil 2C [Source:HGNC Symbol;Acc:HGNC:24903]		Sym-
RNA-SEQ-HUHALLTP-014	2	ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]		
RNA-SEQ-HUHALLTP-014	2	ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]		Sym-
RNA-SEQ-HUHALLTP-015	2	ENSG00000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]		
RNA-SEQ-HUHALLTP-015	2	ENSG00000134352	IL6ST	interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:6021]		
RNA-SEQ-HUHALLTP-016	2	ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutamate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]		
RNA-SEQ-HUHALLTP-016	2	ENSG00000150687	PRSS23	serine protease 23 [Source:HGNC Symbol;Acc:HGNC:14370]		
RNA-SEQ-HUHALLTP-017	3	ENSG00000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					<i>Log₂</i> CYT	<i>Log₂</i> FC	
				integral membrane protein 2B	[Source:HGNC Symbol;Acc:HGNC:6174]	nidogen 1	[Source:HGNC Symbol;Acc:HGNC:7821]	growth arrest and DNA damage inducible beta	[Source:HGNC Symbol;Acc:HGNC:4096]	MAF bZIP transcription factor F	[Source:HGNC Symbol;Acc:HGNC:6780]
RNA-SEQ-HUALLTP-017	3	ENSG00000136156	ITM2B	integral membrane protein 2B	[Source:HGNC Symbol;Acc:HGNC:6174]	nidogen 1	[Source:HGNC Symbol;Acc:HGNC:7821]	growth arrest and DNA damage inducible beta	[Source:HGNC Symbol;Acc:HGNC:4096]	MAF bZIP transcription factor F	[Source:HGNC Symbol;Acc:HGNC:6780]
RNA-SEQ-HUALLTP-017	3	ENSG00000116962	NID1	nidogen 1	[Source:HGNC Symbol;Acc:HGNC:7821]	growth arrest and DNA damage inducible beta	[Source:HGNC Symbol;Acc:HGNC:4096]	MAF bZIP transcription factor F	[Source:HGNC Symbol;Acc:HGNC:6780]	phorbol-12-myristate-13-acetate-induced protein 1	[Source:HGNC Symbol;Acc:HGNC:9108]
RNA-SEQ-HUALLTP-018	3	ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta	[Source:HGNC Symbol;Acc:HGNC:4096]	proline and serine rich 2	[Source:HGNC Symbol;Acc:HGNC:23728]	C-X-C motif chemokine ligand 8	[Source:HGNC Symbol;Acc:HGNC:6025]	tryptophanyl-tRNA synthetase	[Source:HGNC Symbol;Acc:HGNC:12729]
RNA-SEQ-HUALLTP-018	3	ENSG00000185022	MAFF	proline and serine rich 2	[Source:HGNC Symbol;Acc:HGNC:23728]	tryptophanyl-tRNA synthetase	[Source:HGNC Symbol;Acc:HGNC:12729]	angiomotin like 2	[Source:HGNC Symbol;Acc:HGNC:17812]	phorbol-12-myristate-13-acetate-induced protein 1	[Source:HGNC Symbol;Acc:HGNC:9108]
RNA-SEQ-HUALLTP-018	3	ENSG00000141682	PMAIP1	tryptophanyl-tRNA synthetase	[Source:HGNC Symbol;Acc:HGNC:12729]	nocturnin	[Source:HGNC Symbol;Acc:HGNC:14254]	angiomotin like 2	[Source:HGNC Symbol;Acc:HGNC:17812]	phorbol-12-myristate-13-acetate-induced protein 1	[Source:HGNC Symbol;Acc:HGNC:9108]
RNA-SEQ-HUALLTP-019	3	ENSG00000169429	CXCL8	nocturnin	[Source:HGNC Symbol;Acc:HGNC:14254]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]	protein phosphatase 1 regulatory subunit 15A	[Source:HGNC Symbol;Acc:HGNC:14375]
RNA-SEQ-HUALLTP-019	3	ENSG00000148426	PROSER2	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]	nuclear factor kappa B subunit 2	[Source:HGNC Symbol;Acc:HGNC:7795]	nuclear factor kappa B subunit 2	[Source:HGNC Symbol;Acc:HGNC:7795]	solute carrier family 25 member 25	[Source:HGNC Symbol;Acc:HGNC:20663]
RNA-SEQ-HUALLTP-019	3	ENSG00000140105	WARS	nuclear factor kappa B subunit 2	[Source:HGNC Symbol;Acc:HGNC:7795]	nocturnin	[Source:HGNC Symbol;Acc:HGNC:14254]	nocturnin	[Source:HGNC Symbol;Acc:HGNC:14254]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]
RNA-SEQ-HUALLTP-020	7	ENSG00000114019	AMOTL2	nocturnin	[Source:HGNC Symbol;Acc:HGNC:14254]	endoplasmic reticulum protein 44	[Source:HGNC Symbol;Acc:HGNC:18311]	endoplasmic reticulum protein 44	[Source:HGNC Symbol;Acc:HGNC:18311]	protein phosphatase 1 regulatory subunit 15A	[Source:HGNC Symbol;Acc:HGNC:14375]
RNA-SEQ-HUALLTP-020	7	ENSG00000136997	MYC	endoplasmic reticulum protein 44	[Source:HGNC Symbol;Acc:HGNC:18311]	solute carrier family 33 member 1	[Source:HGNC Symbol;Acc:HGNC:95]	solute carrier family 33 member 1	[Source:HGNC Symbol;Acc:HGNC:95]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]
RNA-SEQ-HUALLTP-020	7	ENSG00000077150	NFKB2	solute carrier family 33 member 1	[Source:HGNC Symbol;Acc:HGNC:95]	DNA damage inducible transcript 4	[Source:HGNC Symbol;Acc:HGNC:24944]	DNA damage inducible transcript 4	[Source:HGNC Symbol;Acc:HGNC:24944]	solute carrier family 25 member 25	[Source:HGNC Symbol;Acc:HGNC:20663]
RNA-SEQ-HUALLTP-020	7	ENSG00000151014	NOCT	DNA damage inducible transcript 4	[Source:HGNC Symbol;Acc:HGNC:24944]	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]
RNA-SEQ-HUALLTP-020	7	ENSG00000087074	PPP1R15A	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	neuronalized E3 ubiquitin protein ligase 3	[Source:HGNC Symbol;Acc:HGNC:25162]	neuronalized E3 ubiquitin protein ligase 3	[Source:HGNC Symbol;Acc:HGNC:25162]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]
RNA-SEQ-HUALLTP-020	7	ENSG00000148339	SLC25A25	neuronalized E3 ubiquitin protein ligase 3	[Source:HGNC Symbol;Acc:HGNC:25162]	NFKB inhibitor alpha	[Source:HGNC Symbol;Acc:HGNC:7797]	NFKB inhibitor alpha	[Source:HGNC Symbol;Acc:HGNC:7797]	protein phosphatase 1 regulatory subunit 15A	[Source:HGNC Symbol;Acc:HGNC:14375]
RNA-SEQ-HUALLTP-020	7	ENSG00000101255	TRIB3	NFKB inhibitor alpha	[Source:HGNC Symbol;Acc:HGNC:7797]	huntingtin interacting protein 1 related	[Source:HGNC Symbol;Acc:HGNC:18415]	huntingtin interacting protein 1 related	[Source:HGNC Symbol;Acc:HGNC:18415]	solute carrier family 25 member 25	[Source:HGNC Symbol;Acc:HGNC:20663]
RNA-SEQ-HUALLTP-021	2	ENSG00000023318	ERP44	huntingtin interacting protein 1 related	[Source:HGNC Symbol;Acc:HGNC:18415]	NFKB inhibitor beta	[Source:HGNC Symbol;Acc:HGNC:7798]	NFKB inhibitor beta	[Source:HGNC Symbol;Acc:HGNC:7798]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]
RNA-SEQ-HUALLTP-021	2	ENSG00000169359	SLC33A1	NFKB inhibitor beta	[Source:HGNC Symbol;Acc:HGNC:7798]	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]
RNA-SEQ-HUALLTP-021	4	ENSG00000168209	DDIT4	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	solute carrier family 33 member 1	[Source:HGNC Symbol;Acc:HGNC:95]
RNA-SEQ-HUALLTP-022	4	ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	neuronalized E3 ubiquitin protein ligase 3	[Source:HGNC Symbol;Acc:HGNC:25162]	neuronalized E3 ubiquitin protein ligase 3	[Source:HGNC Symbol;Acc:HGNC:25162]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]
RNA-SEQ-HUALLTP-022	4	ENSG00000163121	NEURL3	neuronalized E3 ubiquitin protein ligase 3	[Source:HGNC Symbol;Acc:HGNC:25162]	NFKB inhibitor alpha	[Source:HGNC Symbol;Acc:HGNC:7797]	NFKB inhibitor alpha	[Source:HGNC Symbol;Acc:HGNC:7797]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]
RNA-SEQ-HUALLTP-022	4	ENSG00000100906	NFKBIA	NFKB inhibitor alpha	[Source:HGNC Symbol;Acc:HGNC:7797]	huntingtin interacting protein 1 related	[Source:HGNC Symbol;Acc:HGNC:18415]	huntingtin interacting protein 1 related	[Source:HGNC Symbol;Acc:HGNC:18415]	protein phosphatase 1 regulatory subunit 15A	[Source:HGNC Symbol;Acc:HGNC:14375]
RNA-SEQ-HUALLTP-022	3	ENSG00000130787	HIP1R	huntingtin interacting protein 1 related	[Source:HGNC Symbol;Acc:HGNC:18415]	NFKB inhibitor beta	[Source:HGNC Symbol;Acc:HGNC:7798]	NFKB inhibitor beta	[Source:HGNC Symbol;Acc:HGNC:7798]	solute carrier family 25 member 25	[Source:HGNC Symbol;Acc:HGNC:20663]
RNA-SEQ-HUALLTP-023	3	ENSG00000104825	NFKBIB	NFKB inhibitor beta	[Source:HGNC Symbol;Acc:HGNC:7798]	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]
RNA-SEQ-HUALLTP-023	3	ENSG00000055483	USP36	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]
RNA-SEQ-HUALLTP-024	3	ENSG00000116761	CTH	interferon induced protein with tetratricopeptide repeats 2	[Source:HGNC Symbol;Acc:HGNC:5409]	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	protein phosphatase 1 regulatory subunit 15A	[Source:HGNC Symbol;Acc:HGNC:14375]
RNA-SEQ-HUALLTP-024	3	ENSG00000177606	JUN	ubiquitin specific peptidase 36	[Source:HGNC Symbol;Acc:HGNC:20062]	Jun proto-oncogene, AP-1 transcription factor subunit	[Source:HGNC Symbol;Acc:HGNC:6204]	Jun proto-oncogene, AP-1 transcription factor subunit	[Source:HGNC Symbol;Acc:HGNC:6204]	solute carrier family 25 member 25	[Source:HGNC Symbol;Acc:HGNC:20663]
RNA-SEQ-HUALLTP-024	3	ENSG00000182199	SHMT2	Jun proto-oncogene, AP-1 transcription factor subunit	[Source:HGNC Symbol;Acc:HGNC:6204]	serine hydroxymethyltransferase 2	[Source:HGNC Symbol;Acc:HGNC:10852]	serine hydroxymethyltransferase 2	[Source:HGNC Symbol;Acc:HGNC:10852]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]
RNA-SEQ-HUALLTP-025	5	ENSG00000138646	HERC5	serine hydroxymethyltransferase 2	[Source:HGNC Symbol;Acc:HGNC:10852]	HECT and RLD domain containing E3 ubiquitin protein ligase 5	[Source:HGNC Symbol;Acc:HGNC:24368]	HECT and RLD domain containing E3 ubiquitin protein ligase 5	[Source:HGNC Symbol;Acc:HGNC:24368]	MYC proto-oncogene, bHLH transcription factor	[Source:HGNC Symbol;Acc:HGNC:7553]
RNA-SEQ-HUALLTP-025	5	ENSG00000171855	IFNB1	HECT and RLD domain containing E3 ubiquitin protein ligase 5	[Source:HGNC Symbol;Acc:HGNC:24368]	interferon beta 1	[Source:HGNC Symbol;Acc:HGNC:5434]	interferon beta 1	[Source:HGNC Symbol;Acc:HGNC:5434]	protein phosphatase 1 regulatory subunit 15A	[Source:HGNC Symbol;Acc:HGNC:14375]
RNA-SEQ-HUALLTP-025	5	ENSG00000182393	IFNL1	interferon beta 1	[Source:HGNC Symbol;Acc:HGNC:5434]	interferon lambda 1	[Source:HGNC Symbol;Acc:HGNC:18363]	interferon lambda 1	[Source:HGNC Symbol;Acc:HGNC:18363]	solute carrier family 25 member 25	[Source:HGNC Symbol;Acc:HGNC:20663]
RNA-SEQ-HUALLTP-025	5	ENSG00000067082	KLF6	interferon lambda 1	[Source:HGNC Symbol;Acc:HGNC:18363]	Kruppel like factor 6	[Source:HGNC Symbol;Acc:HGNC:2235]	Kruppel like factor 6	[Source:HGNC Symbol;Acc:HGNC:2235]	tribbles pseudokinase 3	[Source:HGNC Symbol;Acc:HGNC:16228]

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-025	5	ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]		
RNA-SEQ-HUHALLTP-026	2	ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]		
RNA-SEQ-HUHALLTP-026	2	ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]		
RNA-SEQ-HUHALLTP-027	3	ENSG00000198832	SELENOM	selenoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]		
RNA-SEQ-HUHALLTP-027	3	ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]		
RNA-SEQ-HUHALLTP-027	3	ENSG00000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]		
RNA-SEQ-HUHALLTP-028	4	ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]		
RNA-SEQ-HUHALLTP-028	4	ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]		
RNA-SEQ-HUHALLTP-028	4	ENSG00000163435	ELF3	E74 like ETS transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:3318]		
RNA-SEQ-HUHALLTP-028	4	ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]		
RNA-SEQ-HUHALLTP-029	5	ENSG00000130203	APOE	apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]		
RNA-SEQ-HUHALLTP-029	5	ENSG00000172270	BSG	basigin (Ok blood group) [Source:HGNC Symbol;Acc:HGNC:1116]		
RNA-SEQ-HUHALLTP-029	5	ENSG00000164733	CTSB	cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]		
RNA-SEQ-HUHALLTP-029	5	ENSG00000115380	EFEMP1	EGF containing fibulin extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3218]		
RNA-SEQ-HUHALLTP-029	5	ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]		
RNA-SEQ-HUHALLTP-030	4	ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]		
RNA-SEQ-HUHALLTP-030	4	ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]		
RNA-SEQ-HUHALLTP-030	4	ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]		
RNA-SEQ-HUHALLTP-030	4	ENSG00000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]		
RNA-SEQ-HUHALLTP-031	2	ENSG00000179406	LINC00174	long intergenic non-protein coding RNA 174 [Source:HGNC Symbol;Acc:HGNC:27788]		
RNA-SEQ-HUHALLTP-031	2	ENSG00000188760	TMEM198	transmembrane protein 198 [Source:HGNC Symbol;Acc:HGNC:33704]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000106927	AMBP	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000001036	FUCA2	alpha-L-fucosidase 2 [Source:HGNC Symbol;Acc:HGNC:4008]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000197746	PSAP	prosaposin [Source:HGNC Symbol;Acc:HGNC:9498]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]		
RNA-SEQ-HUHALLTP-032	7	ENSG00000116857	TMEM9	transmembrane protein 9 [Source:HGNC Symbol;Acc:HGNC:18823]		
RNA-SEQ-HUHALLTP-033	6	ENSG00000173812	EIF1	eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:HGNC:3249]		
RNA-SEQ-HUHALLTP-033	6	ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]		
RNA-SEQ-HUHALLTP-033	6	ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-033	6	ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]		
RNA-SEQ-HUHALLTP-033	6	ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]		
RNA-SEQ-HUHALLTP-033	6	ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]		
RNA-SEQ-HUHALLTP-034	2	ENSG00000074695	LMAN1	lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:6631]		
RNA-SEQ-HUHALLTP-034	2	ENSG00000110344	UBE4A	ubiquitination factor E4A [Source:HGNC Symbol;Acc:HGNC:12499]		
RNA-SEQ-HUHALLTP-035	2	ENSG00000006210	CX3CL1	C-X3-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:10647]		
RNA-SEQ-HUHALLTP-035	2	ENSG00000100600	LGMD	legumain [Source:HGNC Symbol;Acc:HGNC:9472]		
RNA-SEQ-HUHALLTP-036	3	ENSG00000072364	AFF4	AF4/FMR2 family member 4 [Source:HGNC Symbol;Acc:HGNC:17869]		
RNA-SEQ-HUHALLTP-036	3	ENSG00000168386	FILIP1L	filamin A interacting protein 1 like [Source:HGNC Symbol;Acc:HGNC:24589]		
RNA-SEQ-HUHALLTP-036	3	ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]		
RNA-SEQ-HUHALLTP-037	2	ENSG00000101199	ARFGAP1	ADP ribosylation factor GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:15852]		
RNA-SEQ-HUHALLTP-037	2	ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]		
RNA-SEQ-HUHALLTP-038	4	ENSG00000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]		
RNA-SEQ-HUHALLTP-038	4	ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]		
RNA-SEQ-HUHALLTP-038	4	ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]		
RNA-SEQ-HUHALLTP-038	4	ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]		
RNA-SEQ-HUHALLTP-039	2	ENSG00000162433	AK4	adenylate kinase 4 [Source:HGNC Symbol;Acc:HGNC:363]		
RNA-SEQ-HUHALLTP-039	2	ENSG00000175066	GK5	glycerol kinase 5 [Source:HGNC Symbol;Acc:HGNC:28635]		
RNA-SEQ-HUHALLTP-040	2	ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]		
RNA-SEQ-HUHALLTP-040	2	ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]		
RNA-SEQ-HUHALLTP-041	2	ENSG00000071553	ATP6AP1	ATPase H ⁺ transporting accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:868]		
RNA-SEQ-HUHALLTP-041	2	ENSG00000134901	KDELC1	KDEL motif containing 1 [Source:HGNC Symbol;Acc:HGNC:19350]		
RNA-SEQ-HUHALLTP-042	2	ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]		
RNA-SEQ-HUHALLTP-042	2	ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]		
RNA-SEQ-HUHALLTP-043	5	ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]		
RNA-SEQ-HUHALLTP-043	5	ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]		
RNA-SEQ-HUHALLTP-043	5	ENSG00000107201	DDX58	DE _x D/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]		
RNA-SEQ-HUHALLTP-043	5	ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]		
RNA-SEQ-HUHALLTP-043	5	ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]		
RNA-SEQ-HUHALLTP-044	6	ENSG00000142192	APP	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-044	6	ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]		
RNA-SEQ-HUHALLTP-044	6	ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]		
RNA-SEQ-HUHALLTP-044	6	ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]		
RNA-SEQ-HUHALLTP-044	6	ENSG00000058262	SEC61A1	Sec61 translocon alpha 1 subunit [Source:HGNC Symbol;Acc:HGNC:18276]		
RNA-SEQ-HUHALLTP-044	6	ENSG00000182934	SRPRA	SRP receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:11307]		
RNA-SEQ-HUHALLTP-045	3	ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]		
RNA-SEQ-HUHALLTP-045	3	ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]		
RNA-SEQ-HUHALLTP-045	3	ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]		
RNA-SEQ-HUHALLTP-046	2	ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]		
RNA-SEQ-HUHALLTP-046	2	ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]		
RNA-SEQ-HUHALLTP-047	3	ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]		
RNA-SEQ-HUHALLTP-047	3	ENSG00000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]		
RNA-SEQ-HUHALLTP-047	3	ENSG00000065060	UHRF1BP1	UHRF1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21216]		
RNA-SEQ-HUHALLTP-048	2	ENSG00000164930	FZD6	frizzled class receptor 6 [Source:HGNC Symbol;Acc:HGNC:4044]		
RNA-SEQ-HUHALLTP-048	2	ENSG00000145623	OSMR	oncostatin M receptor [Source:HGNC Symbol;Acc:HGNC:8507]		
RNA-SEQ-HUHALLTP-049	3	ENSG00000105726	ATP13A1	ATPase 13A1 [Source:HGNC Symbol;Acc:HGNC:24215]		
RNA-SEQ-HUHALLTP-049	3	ENSG00000100242	SUN2	Sad1 and UNC84 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14210]		
RNA-SEQ-HUHALLTP-049	3	ENSG00000170876	TMEM43	transmembrane protein 43 [Source:HGNC Symbol;Acc:HGNC:28472]		
RNA-SEQ-HUHALLTP-050	3	ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]		
RNA-SEQ-HUHALLTP-050	3	ENSG00000197818	SLC9A8	solute carrier family 9 member A8 [Source:HGNC Symbol;Acc:HGNC:20728]		
RNA-SEQ-HUHALLTP-050	3	ENSG00000204070	SYS1	SYS1, golgi trafficking protein [Source:HGNC Symbol;Acc:HGNC:16162]		
RNA-SEQ-HUHALLTP-051	2	ENSG00000204099	NEU4	neuraminidase 4 [Source:HGNC Symbol;Acc:HGNC:21328]		
RNA-SEQ-HUHALLTP-051	2	ENSG00000167291	TBC1D16	TBC1 domain family member 16 [Source:HGNC Symbol;Acc:HGNC:28356]		
RNA-SEQ-HUHALLTP-052	2	ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]		
RNA-SEQ-HUHALLTP-052	2	ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]		
RNA-SEQ-HUHALLTP-053	3	ENSG00000221914	PPP2R2A	protein phosphatase 2 regulatory subunit Balpha [Source:HGNC Symbol;Acc:HGNC:9304]		
RNA-SEQ-HUHALLTP-053	3	ENSG00000144566	RAB5A	RAB5A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9783]		
RNA-SEQ-HUHALLTP-053	3	ENSG00000145390	USP53	ubiquitin specific peptidase 53 [Source:HGNC Symbol;Acc:HGNC:29255]		
RNA-SEQ-HUHALLTP-054	2	ENSG00000109736	MFSD10	major facilitator superfamily domain containing 10 [Source:HGNC Symbol;Acc:HGNC:16894]		
RNA-SEQ-HUHALLTP-054	2	ENSG00000100979	PLTP	phospholipid transfer protein [Source:HGNC Symbol;Acc:HGNC:9093]		
RNA-SEQ-HUHALLTP-055	2	ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
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					CYT	ER
RNA-SEQ-HUHALLTP-055	2	ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]		
RNA-SEQ-HUHALLTP-056	3	ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]		
RNA-SEQ-HUHALLTP-056	3	ENSG00000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]		
RNA-SEQ-HUHALLTP-056	3	ENSG00000147257	GPC3	glycan 3 [Source:HGNC Symbol;Acc:HGNC:4451]		
RNA-SEQ-HUHALLTP-057	2	ENSG00000229314	ORM1	orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]		
RNA-SEQ-HUHALLTP-057	2	ENSG00000133135	RNF128	ring finger protein 128, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:21153]		
RNA-SEQ-HUHALLTP-058	2	ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]		
RNA-SEQ-HUHALLTP-058	2	ENSG00000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]		
RNA-SEQ-HUHALLTP-059	4	ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]		
RNA-SEQ-HUHALLTP-059	4	ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]		
RNA-SEQ-HUHALLTP-059	4	ENSG00000163251	FZD5	frizzled class receptor 5 [Source:HGNC Symbol;Acc:HGNC:4043]		
RNA-SEQ-HUHALLTP-059	4	ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]		
RNA-SEQ-HUHALLTP-060	2	ENSG00000158411	MITD1	microtubule interacting and trafficking domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25207]		
RNA-SEQ-HUHALLTP-060	2	ENSG00000122435	TRMT13	tRNA methyltransferase 13 homolog [Source:HGNC Symbol;Acc:HGNC:25502]		
RNA-SEQ-HUHALLTP-061	2	ENSG00000150782	IL18	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]		
RNA-SEQ-HUHALLTP-061	2	ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]		
RNA-SEQ-HUHALLTP-062	4	ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]		
RNA-SEQ-HUHALLTP-062	4	ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]		
RNA-SEQ-HUHALLTP-062	4	ENSG00000163482	STK36	serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC:17209]		
RNA-SEQ-HUHALLTP-062	4	ENSG00000189164	ZNF527	zinc finger protein 527 [Source:HGNC Symbol;Acc:HGNC:29385]		
RNA-SEQ-HUHALLTP-063	2	ENSG00000125734	GPR108	G protein-coupled receptor 108 [Source:HGNC Symbol;Acc:HGNC:17829]		
RNA-SEQ-HUHALLTP-063	2	ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]		
RNA-SEQ-HUHALLTP-064	2	ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]		
RNA-SEQ-HUHALLTP-064	2	ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]		
RNA-SEQ-HUHALLTP-065	3	ENSG00000153132	CLGN	calmegin [Source:HGNC Symbol;Acc:HGNC:2060]		
RNA-SEQ-HUHALLTP-065	3	ENSG00000172071	EIF2AK3	eukaryotic translation initiation factor 2 alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]		
RNA-SEQ-HUHALLTP-065	3	ENSG00000162407	PLPP3	phospholipid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:9229]		
RNA-SEQ-HUHALLTP-066	2	ENSG00000180210	F2	coagulation factor II, thrombin [Source:HGNC Symbol;Acc:HGNC:3535]		
RNA-SEQ-HUHALLTP-066	2	ENSG00000174165	ZDHHC24	zinc finger DHHC-type containing 24 [Source:HGNC Symbol;Acc:HGNC:27387]		
RNA-SEQ-HUHALLTP-067	3	ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]		
RNA-SEQ-HUHALLTP-067	3	ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
CYT	ER					
RNA-SEQ-HUHALLTP-067	3	ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]		
RNA-SEQ-HUHALLTP-068	2	ENSG00000158158	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4 [Source:HGNC Symbol;Acc:HGNC:105]		
RNA-SEQ-HUHALLTP-068	2	ENSG00000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]		
RNA-SEQ-HUHALLTP-069	4	ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]		
RNA-SEQ-HUHALLTP-069	4	ENSG00000131781	FMO5	flavin containing monooxygenase 5 [Source:HGNC Symbol;Acc:HGNC:3773]		
RNA-SEQ-HUHALLTP-069	4	ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]		
RNA-SEQ-HUHALLTP-069	4	ENSG00000117450	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:9352]		
RNA-SEQ-HUHALLTP-070	2	ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]		
RNA-SEQ-HUHALLTP-070	2	ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]		
RNA-SEQ-HUHALLTP-071	2	ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]		
RNA-SEQ-HUHALLTP-071	2	ENSG00000169564	PCBP1	poly(rC) binding protein 1 [Source:HGNC Symbol;Acc:HGNC:8647]		
RNA-SEQ-HUHALLTP-072	2	ENSG00000205155	PSENEN	presenilin enhancer, gamma-secretase subunit [Source:HGNC Symbol;Acc:HGNC:30100]		
RNA-SEQ-HUHALLTP-072	2	ENSG00000131871	SELENOS	selenoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]		
RNA-SEQ-HUHALLTP-073	2	ENSG0000013588	GPRC5A	G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836]		
RNA-SEQ-HUHALLTP-073	2	ENSG00000234745	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932]		
RNA-SEQ-HUHALLTP-074	2	ENSG00000073150	PANX2	pannexin 2 [Source:HGNC Symbol;Acc:HGNC:8600]		
RNA-SEQ-HUHALLTP-074	2	ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]		
RNA-SEQ-HUHALLTP-075	3	ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]		
RNA-SEQ-HUHALLTP-075	3	ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]		
RNA-SEQ-HUHALLTP-075	3	ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]		
RNA-SEQ-HUHALLTP-076	5	ENSG00000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]		
RNA-SEQ-HUHALLTP-076	5	ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]		
RNA-SEQ-HUHALLTP-076	5	ENSG00000094975	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:HGNC:1240]		
RNA-SEQ-HUHALLTP-076	5	ENSG00000119777	TMEM214	transmembrane protein 214 [Source:HGNC Symbol;Acc:HGNC:25983]		
RNA-SEQ-HUHALLTP-076	5	ENSG00000100219	XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:HGNC:12801]		
RNA-SEQ-HUHALLTP-077	3	ENSG00000134153	EMC7	ER membrane protein complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:24301]		
RNA-SEQ-HUHALLTP-077	3	ENSG00000221968	FADS3	fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:3576]		
RNA-SEQ-HUHALLTP-077	3	ENSG00000186866	POFUT2	protein O-fucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:14683]		
RNA-SEQ-HUHALLTP-078	3	ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]		
RNA-SEQ-HUHALLTP-078	3	ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]		
RNA-SEQ-HUHALLTP-078	3	ENSG00000115306	SPTBN1	spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:11275]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-079	2	ENSG00000100592	DAAM1	dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:HGNC:18142]		1
RNA-SEQ-HUHALLTP-079	2	ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]		
RNA-SEQ-HUHALLTP-080	2	ENSG00000134480	CCNH	cyclin H [Source:HGNC Symbol;Acc:HGNC:1594]		
RNA-SEQ-HUHALLTP-080	2	ENSG00000134548	SPX	spexin hormone [Source:HGNC Symbol;Acc:HGNC:28139]		
RNA-SEQ-HUHALLTP-081	2	ENSG00000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]		
RNA-SEQ-HUHALLTP-081	2	ENSG00000212443	SNORA53	small nucleolar RNA, H/ACA box 53 [Source:HGNC Symbol;Acc:HGNC:32646]		
RNA-SEQ-HUHALLTP-082	2	ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]		
RNA-SEQ-HUHALLTP-082	2	ENSG00000184270	HIST2H2AB	histone cluster 2 H2A family member b [Source:HGNC Symbol;Acc:HGNC:20508]		
RNA-SEQ-HUHALLTP-083	4	ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]		
RNA-SEQ-HUHALLTP-083	4	ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]		
RNA-SEQ-HUHALLTP-083	4	ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]		
RNA-SEQ-HUHALLTP-083	4	ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]		
RNA-SEQ-HUHALLTP-084	2	ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]		
RNA-SEQ-HUHALLTP-084	2	ENSG00000265641	MIR3929	microRNA 3929 [Source:HGNC Symbol;Acc:HGNC:38945]		
RNA-SEQ-HUHALLTP-085	2	ENSG00000104805	NUCB1	nucleobindin 1 [Source:HGNC Symbol;Acc:HGNC:8043]		
RNA-SEQ-HUHALLTP-085	2	ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]		
RNA-SEQ-HUHALLTP-086	2	ENSG00000201201	RN7SKP118	RNA, 7SK small nuclear pseudogene 118 [Source:HGNC Symbol;Acc:HGNC:45842]		
RNA-SEQ-HUHALLTP-086	2	ENSG00000201021	RNU6-743P	RNA, U6 small nuclear 743, pseudogene [Source:HGNC Symbol;Acc:HGNC:47706]		
RNA-SEQ-HUHALLTP-087	6	ENSG00000187134	AKR1C1	aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384]		
RNA-SEQ-HUHALLTP-087	6	ENSG00000151632	AKR1C2	aldo-keto reductase family 1 member C2 [Source:HGNC Symbol;Acc:HGNC:385]		
RNA-SEQ-HUHALLTP-087	6	ENSG00000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]		
RNA-SEQ-HUHALLTP-087	6	ENSG00000198624	CCDC69	coiled-coil domain containing 69 [Source:HGNC Symbol;Acc:HGNC:24487]		
RNA-SEQ-HUHALLTP-087	6	ENSG00000131153	GINS2	GINS complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:24575]		
RNA-SEQ-HUHALLTP-087	6	ENSG00000182378	PLCXD1	phosphatidylinositol specific phospholipase C X domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23148]		
RNA-SEQ-HUHALLTP-088	2	ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]		
RNA-SEQ-HUHALLTP-088	2	ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]		
RNA-SEQ-HUHALLTP-089	4	ENSG00000184371	CSF1	colony stimulating factor 1 [Source:HGNC Symbol;Acc:HGNC:2432]		
RNA-SEQ-HUHALLTP-089	4	ENSG00000117480	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:HGNC:3553]		
RNA-SEQ-HUHALLTP-089	4	ENSG00000151025	GPR158	G protein-coupled receptor 158 [Source:HGNC Symbol;Acc:HGNC:23689]		
RNA-SEQ-HUHALLTP-089	4	ENSG00000119537	KDSR	3-ketodihydroinosine reductase [Source:HGNC Symbol;Acc:HGNC:4021]		
RNA-SEQ-HUHALLTP-090	3	ENSG00000168488	ATXN2L	ataxin 2 like [Source:HGNC Symbol;Acc:HGNC:31326]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-090	3	ENSG00000167978	SRRM2	serine/arginine repetitive matrix 2 [Source:HGNC Symbol;Acc:HGNC:16639]		
RNA-SEQ-HUHALLTP-090	3	ENSG00000168610	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]		
RNA-SEQ-HUHALLTP-091	3	ENSG00000112818	MEP1A	meprin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]		
RNA-SEQ-HUHALLTP-091	3	ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]		
RNA-SEQ-HUHALLTP-091	3	ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]		
RNA-SEQ-HUHALLTP-092	2	ENSG00000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]		
RNA-SEQ-HUHALLTP-092	2	ENSG00000128294	TPST2	tyrosylprotein sulfotransferase 2 [Source:HGNC Symbol;Acc:HGNC:12021]		
RNA-SEQ-HUHALLTP-093	3	ENSG0000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]		
RNA-SEQ-HUHALLTP-093	3	ENSG00000065911	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase [Source:HGNC Symbol;Acc:HGNC:7434]		
RNA-SEQ-HUHALLTP-093	3	ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]		
RNA-SEQ-HUHALLTP-094	4	ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]		
RNA-SEQ-HUHALLTP-094	4	ENSG00000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]		
RNA-SEQ-HUHALLTP-094	4	ENSG00000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]		
RNA-SEQ-HUHALLTP-094	4	ENSG00000187688	TRPV2	transient receptor potential cation channel subfamily V member 2 [Source:HGNC Symbol;Acc:HGNC:18082]		
RNA-SEQ-HUHALLTP-095	4	ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5 [Source:HGNC Symbol;Acc:HGNC:3367]		
RNA-SEQ-HUHALLTP-095	4	ENSG00000186205	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:HGNC:26189]		
RNA-SEQ-HUHALLTP-095	4	ENSG00000052802	MSMO1	methylsterol monooxygenase 1 [Source:HGNC Symbol;Acc:HGNC:10545]		
RNA-SEQ-HUHALLTP-095	4	ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]		
RNA-SEQ-HUHALLTP-096	5	ENSG00000117410	ATP6V0B	ATPase H ⁺ transporting V0 subunit b [Source:HGNC Symbol;Acc:HGNC:861]		
RNA-SEQ-HUHALLTP-096	5	ENSG00000130202	NECTIN2	nectin cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:9707]		
RNA-SEQ-HUHALLTP-096	5	ENSG00000112473	SLC39A7	solute carrier family 39 member 7 [Source:HGNC Symbol;Acc:HGNC:4927]		
RNA-SEQ-HUHALLTP-096	5	ENSG00000180879	SSR4	signal sequence receptor subunit 4 [Source:HGNC Symbol;Acc:HGNC:11326]		
RNA-SEQ-HUHALLTP-096	5	ENSG00000167645	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein [Source:HGNC Symbol;Acc:HGNC:30511]		
RNA-SEQ-HUHALLTP-097	2	ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]		
RNA-SEQ-HUHALLTP-097	2	ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]		
RNA-SEQ-HUHALLTP-098	2	ENSG00000222438	RNU6-1077P	RNA, U6 small nuclear 1077, pseudogene [Source:HGNC Symbol;Acc:HGNC:48040]		
RNA-SEQ-HUHALLTP-098	2	ENSG00000206888	RNU6-48P	RNA, U6 small nuclear 48, pseudogene [Source:HGNC Symbol;Acc:HGNC:34292]		
RNA-SEQ-HUHALLTP-099	2	ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]		
RNA-SEQ-HUHALLTP-099	2	ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]		
RNA-SEQ-HUHALLTP-100	2	ENSG00000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-100	2	ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]		
RNA-SEQ-HUHALLTP-101	4	ENSG00000171298	GAA	glucosidase alpha, acid [Source:HGNC Symbol;Acc:HGNC:4065]		
RNA-SEQ-HUHALLTP-101	4	ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]		
RNA-SEQ-HUHALLTP-101	4	ENSG00000162736	NCSTN	nicastrin [Source:HGNC Symbol;Acc:HGNC:17091]		
RNA-SEQ-HUHALLTP-101	4	ENSG00000196576	PLXNB2	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]		
RNA-SEQ-HUHALLTP-102	2	ENSG00000250144		eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) pseudogene		
RNA-SEQ-HUHALLTP-102	2	ENSG00000245205	EEF1A1P4	eukaryotic translation elongation factor 1 alpha 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:3199]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000101294	HM13	histocompatibility minor 13 [Source:HGNC Symbol;Acc:HGNC:16435]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000158615	PPP1R15B	protein phosphatase 1 regulatory subunit 15B [Source:HGNC Symbol;Acc:HGNC:14951]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000073008	PVR	poliovirus receptor [Source:HGNC Symbol;Acc:HGNC:9705]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000124067	SLC12A4	solute carrier family 12 member 4 [Source:HGNC Symbol;Acc:HGNC:10913]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000105281	SLC1A5	solute carrier family 1 member 5 [Source:HGNC Symbol;Acc:HGNC:10943]		
RNA-SEQ-HUHALLTP-103	7	ENSG00000120889	TNFRSF10B	TNF receptor superfamily member 10b [Source:HGNC Symbol;Acc:HGNC:11905]		
RNA-SEQ-HUHALLTP-104	5	ENSG00000197081	IGF2R	insulin like growth factor 2 receptor [Source:HGNC Symbol;Acc:HGNC:5467]		
RNA-SEQ-HUHALLTP-104	5	ENSG00000101194	SLC17A9	solute carrier family 17 member 9 [Source:HGNC Symbol;Acc:HGNC:16192]		
RNA-SEQ-HUHALLTP-104	5	ENSG00000103257	SLC7A5	solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063]		
RNA-SEQ-HUHALLTP-104	5	ENSG00000184840	TMED9	transmembrane p24 trafficking protein 9 [Source:HGNC Symbol;Acc:HGNC:24878]		
RNA-SEQ-HUHALLTP-104	5	ENSG00000166340	TPP1	tripeptidyl peptidase 1 [Source:HGNC Symbol;Acc:HGNC:2073]		
RNA-SEQ-HUHALLTP-105	2	ENSG00000266469		novel transcript, antisense to MED1		FBXL20
RNA-SEQ-HUHALLTP-105	2	ENSG00000185467	KPNA7	karyopherin subunit alpha 7 [Source:HGNC Symbol;Acc:HGNC:21839]		
RNA-SEQ-HUHALLTP-106	3	ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]		
RNA-SEQ-HUHALLTP-106	3	ENSG00000101856	PGRMC1	progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:HGNC:16090]		
RNA-SEQ-HUHALLTP-106	3	ENSG00000140391	TSPAN3	tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]		
RNA-SEQ-HUHALLTP-107	2	ENSG00000200091	RN7SKP163	RNA, 7SK small nuclear pseudogene 163 [Source:HGNC Symbol;Acc:HGNC:45887]		
RNA-SEQ-HUHALLTP-107	2	ENSG00000199691	RN7SKP173	RNA, 7SK small nuclear pseudogene 173 [Source:HGNC Symbol;Acc:HGNC:45897]		
RNA-SEQ-HUHALLTP-108	2	ENSG00000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:2561]		
RNA-SEQ-HUHALLTP-108	2	ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]		
RNA-SEQ-HUHALLTP-109	3	ENSG00000038002	AGA	aspartyl/glucosaminidase [Source:HGNC Symbol;Acc:HGNC:318]		
RNA-SEQ-HUHALLTP-109	3	ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-109	3	ENSG0000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]		
RNA-SEQ-HUHALLTP-110	4	ENSG0000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]		
RNA-SEQ-HUHALLTP-110	4	ENSG0000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3797]		
RNA-SEQ-HUHALLTP-110	4	ENSG0000172059	KLF11	Kruppel like factor 11 [Source:HGNC Symbol;Acc:HGNC:11811]		
RNA-SEQ-HUHALLTP-110	4	ENSG0000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]		
RNA-SEQ-HUHALLTP-111	2	ENSG0000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]		
RNA-SEQ-HUHALLTP-111	2	ENSG0000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]		
RNA-SEQ-HUHALLTP-112	5	ENSG0000115170	ACVR1	activin A receptor type 1 [Source:HGNC Symbol;Acc:HGNC:171]		
RNA-SEQ-HUHALLTP-112	5	ENSG0000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]		
RNA-SEQ-HUHALLTP-112	5	ENSG0000169432	SCN9A	sodium voltage-gated channel alpha subunit 9 [Source:HGNC Symbol;Acc:HGNC:10597]		
RNA-SEQ-HUHALLTP-112	5	ENSG0000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]		
RNA-SEQ-HUHALLTP-112	5	ENSG0000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]		
RNA-SEQ-HUHALLTP-113	4	ENSG0000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]		
RNA-SEQ-HUHALLTP-113	4	ENSG0000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]		
RNA-SEQ-HUHALLTP-113	4	ENSG0000130522	JUND	JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]		
RNA-SEQ-HUHALLTP-113	4	ENSG0000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]		
RNA-SEQ-HUHALLTP-114	3	ENSG0000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]		
RNA-SEQ-HUHALLTP-114	3	ENSG0000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]		
RNA-SEQ-HUHALLTP-114	3	ENSG0000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]		
RNA-SEQ-HUHALLTP-115	3	ENSG0000204520	MICA	MHC class I polypeptide-related sequence A [Source:HGNC Symbol;Acc:HGNC:7090]		
RNA-SEQ-HUHALLTP-115	3	ENSG0000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]		
RNA-SEQ-HUHALLTP-115	3	ENSG0000204344	STK19	serine/threonine kinase 19 [Source:HGNC Symbol;Acc:HGNC:11398]		
RNA-SEQ-HUHALLTP-116	3	ENSG0000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]		
RNA-SEQ-HUHALLTP-116	3	ENSG0000204869	IGFL4	IGF like family member 4 [Source:HGNC Symbol;Acc:HGNC:32931]		
RNA-SEQ-HUHALLTP-116	3	ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]		
RNA-SEQ-HUHALLTP-117	5	ENSG0000112414	ADGRG6	adhesion G protein-coupled receptor G6 [Source:HGNC Symbol;Acc:HGNC:13841]		
RNA-SEQ-HUHALLTP-117	5	ENSG0000170017	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:400]		
RNA-SEQ-HUHALLTP-117	5	ENSG0000074842	MYDGF	myeloid derived growth factor [Source:HGNC Symbol;Acc:HGNC:16948]		
RNA-SEQ-HUHALLTP-117	5	ENSG0000135506	OS9	OS9, endoplasmic reticulum lectin [Source:HGNC Symbol;Acc:HGNC:16994]		
RNA-SEQ-HUHALLTP-117	5	ENSG0000120725	SIL1	SIL1 nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:24624]		
RNA-SEQ-HUHALLTP-118	7	ENSG0000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-118	7	ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]		
RNA-SEQ-HUHALLTP-118	7	ENSG00000149428	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]		
RNA-SEQ-HUHALLTP-118	7	ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]		
RNA-SEQ-HUHALLTP-118	7	ENSG00000134294	SLC38A2	solute carrier family 38 member 2 [Source:HGNC Symbol;Acc:HGNC:13448]		
RNA-SEQ-HUHALLTP-118	7	ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]		
RNA-SEQ-HUHALLTP-118	7	ENSG00000086598	TMED2	transmembrane p24 trafficking protein 2 [Source:HGNC Symbol;Acc:HGNC:16996]		
RNA-SEQ-HUHALLTP-119	3	ENSG00000234678	ELF3-AS1	ELF3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40211]		
RNA-SEQ-HUHALLTP-119	3	ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]		
RNA-SEQ-HUHALLTP-119	3	ENSG00000126561	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:HGNC:11366]		
RNA-SEQ-HUHALLTP-120	2	ENSG00000145246	ATP10D	ATPase phospholipid transporting 10D (putative) [Source:HGNC Symbol;Acc:HGNC:13549]		
RNA-SEQ-HUHALLTP-120	2	ENSG00000163703	CRELD1	cysteine rich with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:14630]		
RNA-SEQ-HUHALLTP-121	4	ENSG00000182220	ATP6AP2	ATPase H ⁺ transporting accessory protein 2 [Source:HGNC Symbol;Acc:HGNC:18305]		
RNA-SEQ-HUHALLTP-121	4	ENSG00000123989	CHPF	chondroitin polymerizing factor [Source:HGNC Symbol;Acc:HGNC:24291]		
RNA-SEQ-HUHALLTP-121	4	ENSG00000030582	GRN	granulin precursor [Source:HGNC Symbol;Acc:HGNC:4601]		
RNA-SEQ-HUHALLTP-121	4	ENSG00000166311	SMPD1	sphingomyelin phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:11120]		
RNA-SEQ-HUHALLTP-122	4	ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]		
RNA-SEQ-HUHALLTP-122	4	ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]		
RNA-SEQ-HUHALLTP-122	4	ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]		
RNA-SEQ-HUHALLTP-122	4	ENSG00000178229	ZNF543	zinc finger protein 543 [Source:HGNC Symbol;Acc:HGNC:25281]		
RNA-SEQ-HUHALLTP-123	2	ENSG00000145730	PAM	peptidyl glycine alpha-amidating monoxygenase [Source:HGNC Symbol;Acc:HGNC:8596]		
RNA-SEQ-HUHALLTP-123	2	ENSG00000095209	TMEM38B	transmembrane protein 38B [Source:HGNC Symbol;Acc:HGNC:25535]		
RNA-SEQ-HUHALLTP-123	5	ENSG00000177697	CD151	CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:HGNC:1630]		
RNA-SEQ-HUHALLTP-124	5	ENSG00000066322	ELOVL1	ELOVL fatty acid elongase 1 [Source:HGNC Symbol;Acc:HGNC:14418]		
RNA-SEQ-HUHALLTP-124	5	ENSG00000165282	PIGO	phosphatidylinositol glycan anchor biosynthesis class O [Source:HGNC Symbol;Acc:HGNC:23215]		
RNA-SEQ-HUHALLTP-124	5	ENSG00000167543	TP53I13	tumor protein p53 inducible protein 13 [Source:HGNC Symbol;Acc:HGNC:25102]		
RNA-SEQ-HUHALLTP-124	5	ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]		
RNA-SEQ-HUHALLTP-125	3	ENSG00000148719	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12 [Source:HGNC Symbol;Acc:HGNC:14891]		
RNA-SEQ-HUHALLTP-125	3	ENSG00000204592	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:HGNC:4962]		
RNA-SEQ-HUHALLTP-125	3	ENSG00000128016	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:HGNC:12862]		
RNA-SEQ-HUHALLTP-126	7	ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]		
RNA-SEQ-HUHALLTP-126	7	ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-126	7	ENSG00000128590	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC Symbol;Acc:HGNC:6968]		
RNA-SEQ-HUHALLTP-126	7	ENSG00000171988	JMJD1C	jumonji domain containing 1C [Source:HGNC Symbol;Acc:HGNC:12313]		
RNA-SEQ-HUHALLTP-126	7	ENSG00000157181	ODR4	odr-4 GPCR localization factor homolog [Source:HGNC Symbol;Acc:HGNC:24299]		
RNA-SEQ-HUHALLTP-126	7	ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]		
RNA-SEQ-HUHALLTP-126	7	ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]		
RNA-SEQ-HUHALLTP-127	2	ENSG00000130827	PLXNA3	plexin A3 [Source:HGNC Symbol;Acc:HGNC:9101]		
RNA-SEQ-HUHALLTP-127	2	ENSG00000166224	SGPL1	sphingosine-1-phosphate lyase 1 [Source:HGNC Symbol;Acc:HGNC:10817]		
RNA-SEQ-HUHALLTP-128	2	ENSG00000054219	LY75	lymphocyte antigen 75 [Source:HGNC Symbol;Acc:HGNC:6729]		
RNA-SEQ-HUHALLTP-128	2	ENSG00000254827	SLC22A18AS	solute carrier family 22 member 18 antisense [Source:HGNC Symbol;Acc:HGNC:10965]		
RNA-SEQ-HUHALLTP-129	3	ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]		
RNA-SEQ-HUHALLTP-129	3	ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]		
RNA-SEQ-HUHALLTP-129	3	ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]		
RNA-SEQ-HUHALLTP-130	5	ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]		
RNA-SEQ-HUHALLTP-130	5	ENSG00000088038	CNOT3	CCR4-NOT transcription complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:7879]		
RNA-SEQ-HUHALLTP-130	5	ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]		
RNA-SEQ-HUHALLTP-130	5	ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]		
RNA-SEQ-HUHALLTP-130	5	ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]		
RNA-SEQ-HUHALLTP-131	2	ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]		
RNA-SEQ-HUHALLTP-131	2	ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]		
RNA-SEQ-HUHALLTP-132	6	ENSG00000109572	CLCN3	chloride voltage-gated channel 3 [Source:HGNC Symbol;Acc:HGNC:2021]		
RNA-SEQ-HUHALLTP-132	6	ENSG00000068912	ERLEC1	endoplasmic reticulum lectin 1 [Source:HGNC Symbol;Acc:HGNC:25222]		
RNA-SEQ-HUHALLTP-132	6	ENSG00000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]		
RNA-SEQ-HUHALLTP-132	6	ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]		
RNA-SEQ-HUHALLTP-132	6	ENSG00000164266	SPINK1	serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11244]		
RNA-SEQ-HUHALLTP-132	6	ENSG00000117500	TMED5	transmembrane p24 trafficking protein 5 [Source:HGNC Symbol;Acc:HGNC:24251]		
RNA-SEQ-HUHALLTP-133	5	ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]		
RNA-SEQ-HUHALLTP-133	5	ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]		
RNA-SEQ-HUHALLTP-133	5	ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]		
RNA-SEQ-HUHALLTP-133	5	ENSG00000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]		
RNA-SEQ-HUHALLTP-133	5	ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]		
RNA-SEQ-HUHALLTP-134	2	ENSG00000199890				

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-134	2	ENSG00000200436				
RNA-SEQ-HUHALLTP-135	6	ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]		
RNA-SEQ-HUHALLTP-135	6	ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]		
RNA-SEQ-HUHALLTP-135	6	ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]		
RNA-SEQ-HUHALLTP-135	6	ENSG00000172732	MUS81	MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:29814]		
RNA-SEQ-HUHALLTP-135	6	ENSG00000109320	NFKB1	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]		
RNA-SEQ-HUHALLTP-135	6	ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]		
RNA-SEQ-HUHALLTP-136	3	ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]		
RNA-SEQ-HUHALLTP-136	3	ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]		
RNA-SEQ-HUHALLTP-136	3	ENSG00000079215	SLC1A3	solute carrier family 1 member 3 [Source:HGNC Symbol;Acc:HGNC:10941]		
RNA-SEQ-HUHALLTP-137	3	ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]		
RNA-SEQ-HUHALLTP-137	3	ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]		
RNA-SEQ-HUHALLTP-137	3	ENSG00000135617	PRADC1	protease associated domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16047]		
RNA-SEQ-HUHALLTP-138	3	ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]		
RNA-SEQ-HUHALLTP-138	3	ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]		
RNA-SEQ-HUHALLTP-138	3	ENSG00000175556	LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:HGNC:21152]		
RNA-SEQ-HUHALLTP-139	3	ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]		
RNA-SEQ-HUHALLTP-139	3	ENSG00000164308	ERAP2	endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]		
RNA-SEQ-HUHALLTP-139	3	ENSG00000127957	PMS2P3	PMS1 homolog 2, mismatch repair system component pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:9128]		
RNA-SEQ-HUHALLTP-140	6	ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]		
RNA-SEQ-HUHALLTP-140	6	ENSG00000079385	CEACAM1	carcinoembryonic antigen related cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:1814]		
RNA-SEQ-HUHALLTP-140	6	ENSG00000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]		
RNA-SEQ-HUHALLTP-140	6	ENSG00000140497	SCAMP2	secretory carrier membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:10564]		
RNA-SEQ-HUHALLTP-140	6	ENSG00000149131	SERPING1	serpin family G member 1 [Source:HGNC Symbol;Acc:HGNC:1228]		
RNA-SEQ-HUHALLTP-140	6	ENSG00000231925	TAPBP	TAP binding protein [Source:HGNC Symbol;Acc:HGNC:11566]		
RNA-SEQ-HUHALLTP-141	4	ENSG00000126775	ATG14	autophagy related 14 [Source:HGNC Symbol;Acc:HGNC:19962]		
RNA-SEQ-HUHALLTP-141	4	ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]		
RNA-SEQ-HUHALLTP-141	4	ENSG00000088356	PDRG1	p53 and DNA damage regulated 1 [Source:HGNC Symbol;Acc:HGNC:16119]		
RNA-SEQ-HUHALLTP-141	4	ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]		
RNA-SEQ-HUHALLTP-142	3	ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]		
RNA-SEQ-HUHALLTP-142	3	ENSG00000102048	ASB9	ankyrin repeat and SOCS box containing 9 [Source:HGNC Symbol;Acc:HGNC:17184]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-142	3	ENSG00000243955	GSTA1	glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc:HGNC:4626]		
RNA-SEQ-HUHALLTP-143	4	ENSG00000255468				
RNA-SEQ-HUHALLTP-143	4	ENSG00000137825	ITPKA	inositol-trisphosphate 3-kinase A [Source:HGNC Symbol;Acc:HGNC:6178]		
RNA-SEQ-HUHALLTP-143	4	ENSG00000186193	SAPCD2	suppressor APC domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28055]		
RNA-SEQ-HUHALLTP-143	4	ENSG00000137834	SMAD6	SMAD family member 6 [Source:HGNC Symbol;Acc:HGNC:6772]		
RNA-SEQ-HUHALLTP-144	2	ENSG00000207207				
RNA-SEQ-HUHALLTP-144	2	ENSG00000235142	LINC02532	long intergenic non-protein coding RNA 2532 [Source:HGNC Symbol;Acc:HGNC:53549]		
RNA-SEQ-HUHALLTP-145	3	ENSG00000115641	FHL2	four and a half LIM domains 2 [Source:HGNC Symbol;Acc:HGNC:3703]		
RNA-SEQ-HUHALLTP-145	3	ENSG00000096968	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]		
RNA-SEQ-HUHALLTP-145	3	ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]		
RNA-SEQ-HUHALLTP-146	2	ENSG00000230647		novel transcript		
RNA-SEQ-HUHALLTP-146	2	ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]		
RNA-SEQ-HUHALLTP-147	2	ENSG00000185164	NOMO2	NODAL modulator 2 [Source:HGNC Symbol;Acc:HGNC:22652]		
RNA-SEQ-HUHALLTP-147	2	ENSG00000238825	RNU1-13P	RNA, U1 small nuclear 13, pseudogene [Source:HGNC Symbol;Acc:HGNC:10138]		
RNA-SEQ-HUHALLTP-148	4	ENSG00000136986	DERL1	derlin 1 [Source:HGNC Symbol;Acc:HGNC:28454]		
RNA-SEQ-HUHALLTP-148	4	ENSG00000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]		
RNA-SEQ-HUHALLTP-148	4	ENSG00000102158	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:HGNC:28880]		
RNA-SEQ-HUHALLTP-148	4	ENSG00000180867	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4607]		
RNA-SEQ-HUHALLTP-149	3	ENSG00000141756	FKBP10	FK506 binding protein 10 [Source:HGNC Symbol;Acc:HGNC:18169]		
RNA-SEQ-HUHALLTP-149	3	ENSG00000163898	LIPH	lipase H [Source:HGNC Symbol;Acc:HGNC:18483]		
RNA-SEQ-HUHALLTP-149	3	ENSG00000162298	SYVN1	synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]		
RNA-SEQ-HUHALLTP-150	5	ENSG00000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]		
RNA-SEQ-HUHALLTP-150	5	ENSG00000166794	PPIB	peptidyl prolyl isomerase B [Source:HGNC Symbol;Acc:HGNC:9255]		
RNA-SEQ-HUHALLTP-150	5	ENSG00000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]		
RNA-SEQ-HUHALLTP-150	5	ENSG00000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]		
RNA-SEQ-HUHALLTP-150	5	ENSG00000147852	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]		
RNA-SEQ-HUHALLTP-151	5	ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]		
RNA-SEQ-HUHALLTP-151	5	ENSG00000244038	DDOST	dolichyl-diphosphooligosaccharide-protein glycosyltransferase non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:2728]		
RNA-SEQ-HUHALLTP-151	5	ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]		
RNA-SEQ-HUHALLTP-151	5	ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-151	5	ENSG00000124783	SSR1	signal sequence receptor subunit 1 [Source:HGNC Symbol;Acc:HGNC:11323]		
RNA-SEQ-HUHALLTP-152	2	ENSG00000116675	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6 [Source:HGNC Symbol;Acc:HGNC:15469]		
RNA-SEQ-HUHALLTP-152	2	ENSG00000201955	RNY3P1	RNA, Ro-associated Y3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42477]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000064601	CTSA	cathepsin A [Source:HGNC Symbol;Acc:HGNC:9251]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000049860	HEXB	hexosaminidase subunit beta [Source:HGNC Symbol;Acc:HGNC:4879]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000185896	LAMP1	lysosomal associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:6499]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000105699	LSR	lipolysis stimulated lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:29572]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000124155	PIGT	phosphatidylinositol glycan anchor biosynthesis class T [Source:HGNC Symbol;Acc:HGNC:14938]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000101337	TM9SF4	transmembrane 9 superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:30797]		
RNA-SEQ-HUHALLTP-153	7	ENSG00000214063	TSPAN4	tetraspanin 4 [Source:HGNC Symbol;Acc:HGNC:11859]		
RNA-SEQ-HUHALLTP-154	6	ENSG00000008311	AASS	aminoacidate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]		
RNA-SEQ-HUHALLTP-154	6	ENSG0000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]		
RNA-SEQ-HUHALLTP-154	6	ENSG00000006459	KDM7A	lysine demethylase 7A [Source:HGNC Symbol;Acc:HGNC:22224]		
RNA-SEQ-HUHALLTP-154	6	ENSG00000113407	TARS	threonyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:11572]		
RNA-SEQ-HUHALLTP-154	6	ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]		
RNA-SEQ-HUHALLTP-154	6	ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]		
RNA-SEQ-HUHALLTP-155	2	ENSG00000059769	DNAJC25	DnaJ heat shock protein family (Hsp40) member C25 [Source:HGNC Symbol;Acc:HGNC:34187]		
RNA-SEQ-HUHALLTP-155	2	ENSG00000157837	SPPL3	signal peptide peptidase like 3 [Source:HGNC Symbol;Acc:HGNC:30424]		
RNA-SEQ-HUHALLTP-156	6	ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]		
RNA-SEQ-HUHALLTP-156	6	ENSG00000164307	ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]		
RNA-SEQ-HUHALLTP-156	6	ENSG00000169851	PCDH7	protocadherin 7 [Source:HGNC Symbol;Acc:HGNC:8659]		
RNA-SEQ-HUHALLTP-156	6	ENSG00000183255	PTTG1IP	PTTG1 interacting protein [Source:HGNC Symbol;Acc:HGNC:13524]		
RNA-SEQ-HUHALLTP-156	6	ENSG00000227500	SCAMP4	secretory carrier membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:30385]		
RNA-SEQ-HUHALLTP-156	6	ENSG00000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]		
RNA-SEQ-HUHALLTP-157	3	ENSG00000134897	BIVM	basic, immunoglobulin-like variable motif containing [Source:HGNC Symbol;Acc:HGNC:16034]		
RNA-SEQ-HUHALLTP-157	3	ENSG00000119125	GDA	guanine deaminase [Source:HGNC Symbol;Acc:HGNC:4212]		
RNA-SEQ-HUHALLTP-157	3	ENSG00000196628	TCF4	transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:11634]		
RNA-SEQ-HUHALLTP-158	4	ENSG00000131591	C1orf159	chromosome 1 open reading frame 159 [Source:HGNC Symbol;Acc:HGNC:26062]		
RNA-SEQ-HUHALLTP-158	4	ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]		
RNA-SEQ-HUHALLTP-158	4	ENSG00000135124	P2RX4	purinergic receptor P2X 4 [Source:HGNC Symbol;Acc:HGNC:8535]		
RNA-SEQ-HUHALLTP-158	4	ENSG00000105223	PLD3	phospholipase D family member 3 [Source:HGNC Symbol;Acc:HGNC:17158]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC
									CYT	ER
RNA-SEQ-HUHALLTP-159	2	ENSG00000132406	TMEM128	transmembrane protein 128	[Source:HGNC Symbol;Acc:HGNC:28201]					
RNA-SEQ-HUHALLTP-159	2	ENSG00000119048	UBE2B	ubiquitin conjugating enzyme E2 B	[Source:HGNC Symbol;Acc:HGNC:12473]					
RNA-SEQ-HUHALLTP-160	2	ENSG00000179818	PCBP1-AS1	PCBP1 antisense RNA 1	[Source:HGNC Symbol;Acc:HGNC:42948]					
RNA-SEQ-HUHALLTP-160	2	ENSG00000197619	ZNF615	zinc finger protein 615	[Source:HGNC Symbol;Acc:HGNC:24740]					
RNA-SEQ-HUHALLTP-161	4	ENSG00000079335	CDC14A	cell division cycle 14A	[Source:HGNC Symbol;Acc:HGNC:1718]					
RNA-SEQ-HUHALLTP-161	4	ENSG00000164695	CHMP4C	charged multivesicular body protein 4C	[Source:HGNC Symbol;Acc:HGNC:30599]					
RNA-SEQ-HUHALLTP-161	4	ENSG00000198517	MAFK	MAF bZIP transcription factor K	[Source:HGNC Symbol;Acc:HGNC:6782]					
RNA-SEQ-HUHALLTP-161	4	ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta	[Source:HGNC Symbol;Acc:HGNC:9310]					
RNA-SEQ-HUHALLTP-162	2	ENSG00000165376	CLDN2	claudin 2	[Source:HGNC Symbol;Acc:HGNC:2041]					
RNA-SEQ-HUHALLTP-162	2	ENSG00000149573	MPZL2	myelin protein zero like 2	[Source:HGNC Symbol;Acc:HGNC:3496]					
RNA-SEQ-HUHALLTP-163	5	ENSG00000184545	DUSP8	dual specificity phosphatase 8	[Source:HGNC Symbol;Acc:HGNC:3074]					
RNA-SEQ-HUHALLTP-163	5	ENSG00000118503	TNFAIP3	TNF alpha induced protein 3	[Source:HGNC Symbol;Acc:HGNC:11896]					
RNA-SEQ-HUHALLTP-163	5	ENSG00000145908	ZNF300	zinc finger protein 300	[Source:HGNC Symbol;Acc:HGNC:13091]					
RNA-SEQ-HUHALLTP-163	5	ENSG00000166188	ZNF319	zinc finger protein 319	[Source:HGNC Symbol;Acc:HGNC:13644]					
RNA-SEQ-HUHALLTP-163	5	ENSG00000143067	ZNF697	zinc finger protein 697	[Source:HGNC Symbol;Acc:HGNC:32034]					
RNA-SEQ-HUHALLTP-164	3	ENSG00000188290	HES4	hes family bHLH transcription factor 4	[Source:HGNC Symbol;Acc:HGNC:24149]					
RNA-SEQ-HUHALLTP-164	3	ENSG00000120937	NPPB	natriuretic peptide B	[Source:HGNC Symbol;Acc:HGNC:7940]					
RNA-SEQ-HUHALLTP-164	3	ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6	[Source:HGNC Symbol;Acc:HGNC:12490]					
RNA-SEQ-HUHALLTP-165	4	ENSG00000277918								
RNA-SEQ-HUHALLTP-165	4	ENSG00000200795	RNU4-1	RNA, U4 small nuclear 1	[Source:HGNC Symbol;Acc:HGNC:10192]					
RNA-SEQ-HUHALLTP-165	4	ENSG00000202538	RNU4-2	RNA, U4 small nuclear 2	[Source:HGNC Symbol;Acc:HGNC:10193]					
RNA-SEQ-HUHALLTP-165	4	ENSG00000199568	RNU5A-1	RNA, U5A small nuclear 1	[Source:HGNC Symbol;Acc:HGNC:10211]					
RNA-SEQ-HUHALLTP-166	5	ENSG00000182326	C1S	complement C1s	[Source:HGNC Symbol;Acc:HGNC:1247]					
RNA-SEQ-HUHALLTP-166	5	ENSG00000103335	PIEZ01	piezo type mechanosensitive ion channel component 1	[Source:HGNC Symbol;Acc:HGNC:28993]					
RNA-SEQ-HUHALLTP-166	5	ENSG00000032444	PNPLA6	patatin like phospholipase domain containing 6	[Source:HGNC Symbol;Acc:HGNC:16268]					
RNA-SEQ-HUHALLTP-166	5	ENSG00000113504	SLC12A7	solute carrier family 12 member 7	[Source:HGNC Symbol;Acc:HGNC:10915]					
RNA-SEQ-HUHALLTP-166	5	ENSG00000151229	SLC2A13	solute carrier family 2 member 13	[Source:HGNC Symbol;Acc:HGNC:15956]					
RNA-SEQ-HUHALLTP-167	5	ENSG00000171603	CLSTN1	calsyntenin 1	[Source:HGNC Symbol;Acc:HGNC:17447]					
RNA-SEQ-HUHALLTP-167	5	ENSG00000196159	FAT4	FAT atypical cadherin 4	[Source:HGNC Symbol;Acc:HGNC:23109]					
RNA-SEQ-HUHALLTP-167	5	ENSG00000135052	GOLM1	golgi membrane protein 1	[Source:HGNC Symbol;Acc:HGNC:15451]					
RNA-SEQ-HUHALLTP-167	5	ENSG00000168938	PPIC	peptidyl prolyl isomerase C	[Source:HGNC Symbol;Acc:HGNC:9256]					

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-167	5	ENSG00000152291	TGOLN2	trans-golgi network protein 2 [Source:HGNC Symbol;Acc:HGNC:15450]		
RNA-SEQ-HUHALLTP-168	3	ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]		
RNA-SEQ-HUHALLTP-168	3	ENSG00000118257	NRP2	neuropilin 2 [Source:HGNC Symbol;Acc:HGNC:8005]		
RNA-SEQ-HUHALLTP-168	3	ENSG00000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]		
RNA-SEQ-HUHALLTP-169	2	ENSG00000251258	RFPL4B	ret finger protein like 4B [Source:HGNC Symbol;Acc:HGNC:33264]		
RNA-SEQ-HUHALLTP-169	2	ENSG00000197044	ZNF441	zinc finger protein 441 [Source:HGNC Symbol;Acc:HGNC:20875]		
RNA-SEQ-HUHALLTP-170	5	ENSG00000165121		kinesin family member 27 (KIF27) pseudogene		
RNA-SEQ-HUHALLTP-170	5	ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]		
RNA-SEQ-HUHALLTP-170	5	ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]		
RNA-SEQ-HUHALLTP-170	5	ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]		
RNA-SEQ-HUHALLTP-170	5	ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]		
RNA-SEQ-HUHALLTP-171	3	ENSG0000010810	FYN	FYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4037]		
RNA-SEQ-HUHALLTP-171	3	ENSG00000144852	NR1I2	nuclear receptor subfamily 1 group I member 2 [Source:HGNC Symbol;Acc:HGNC:7968]		
RNA-SEQ-HUHALLTP-171	3	ENSG00000214121	PRDX1P1	peroxiredoxin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:11711]		
RNA-SEQ-HUHALLTP-172	5	ENSG00000124574	ABCC10	ATP binding cassette subfamily C member 10 [Source:HGNC Symbol;Acc:HGNC:52]		
RNA-SEQ-HUHALLTP-172	5	ENSG00000139641	ESYT1	extended synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:29534]		
RNA-SEQ-HUHALLTP-172	5	ENSG00000116521	SCAMP3	secretory carrier membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:10565]		
RNA-SEQ-HUHALLTP-172	5	ENSG00000167114	SLC27A4	solute carrier family 27 member 4 [Source:HGNC Symbol;Acc:HGNC:10998]		
RNA-SEQ-HUHALLTP-172	5	ENSG00000157637	SLC38A10	solute carrier family 38 member 10 [Source:HGNC Symbol;Acc:HGNC:28237]		
RNA-SEQ-HUHALLTP-173	4	ENSG00000232368	FTLP2	ferritin light chain pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:4001]		
RNA-SEQ-HUHALLTP-173	4	ENSG00000226608	FTLP3	ferritin light chain pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:4000]		
RNA-SEQ-HUHALLTP-173	4	ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]		
RNA-SEQ-HUHALLTP-173	4	ENSG00000106785	TRIM14	tripartite motif containing 14 [Source:HGNC Symbol;Acc:HGNC:16283]		
RNA-SEQ-HUHALLTP-174	4	ENSG00000138639	ARHGAP24	Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:HGNC:25361]		
RNA-SEQ-HUHALLTP-174	4	ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]		
RNA-SEQ-HUHALLTP-174	4	ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]		
RNA-SEQ-HUHALLTP-174	4	ENSG00000176046	NUPR1	nuclear protein 1, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29990]		
RNA-SEQ-HUHALLTP-175	2	ENSG00000155254	MARVELD1	MARVEL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28674]		
RNA-SEQ-HUHALLTP-175	2	ENSG00000201654	RNU6-7	RNA, U6 small nuclear 7 [Source:HGNC Symbol;Acc:HGNC:34284]		
RNA-SEQ-HUHALLTP-176	2	ENSG0000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]		
RNA-SEQ-HUHALLTP-176	2	ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description				<i>Log₂</i> FC	<i>Log₂</i> FC
								CYT	ER
RNA-SEQ-HUHALLTP-177	2	ENSG00000115252	PDE1A	phosphodiesterase 1A [Source:HGNC Symbol;Acc:HGNC:8774]					
RNA-SEQ-HUHALLTP-177	2	ENSG00000189298	ZKSCAN3	zinc finger with KRAB and SCAN domains 3 [Source:HGNC Symbol;Acc:HGNC:13853]					
RNA-SEQ-HUHALLTP-178	4	ENSG0000011132	APBA3	amyloid beta precursor protein binding family A member 3 [Source:HGNC Symbol;Acc:HGNC:580]					
RNA-SEQ-HUHALLTP-178	4	ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]					
RNA-SEQ-HUHALLTP-178	4	ENSG00000175592	FOSL1	FOS like 1, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:13718]					
RNA-SEQ-HUHALLTP-178	4	ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]					
RNA-SEQ-HUHALLTP-179	3	ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]					
RNA-SEQ-HUHALLTP-179	3	ENSG00000111666	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:17852]					
RNA-SEQ-HUHALLTP-179	3	ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]					
RNA-SEQ-HUHALLTP-180	2	ENSG00000156140	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]					
RNA-SEQ-HUHALLTP-180	2	ENSG00000241360	PDXP	pyridoxal phosphatase [Source:HGNC Symbol;Acc:HGNC:30259]					
RNA-SEQ-HUHALLTP-181	3	ENSG00000283162		STRA6-like (Stra6) pseudogene					
RNA-SEQ-HUHALLTP-181	3	ENSG00000165113	GKAP1	G kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:17496]					
RNA-SEQ-HUHALLTP-181	3	ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]					
RNA-SEQ-HUHALLTP-182	6	ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]					
RNA-SEQ-HUHALLTP-182	6	ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]					
RNA-SEQ-HUHALLTP-182	6	ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]					
RNA-SEQ-HUHALLTP-182	6	ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]					
RNA-SEQ-HUHALLTP-182	6	ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]					
RNA-SEQ-HUHALLTP-182	6	ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]					
RNA-SEQ-HUHALLTP-183	2	ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]					
RNA-SEQ-HUHALLTP-183	2	ENSG00000148841	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]					
RNA-SEQ-HUHALLTP-184	3	ENSG00000112977	DAP	death associated protein [Source:HGNC Symbol;Acc:HGNC:2672]					
RNA-SEQ-HUHALLTP-184	3	ENSG00000166436	TRIM66	tripartite motif containing 66 [Source:HGNC Symbol;Acc:HGNC:29005]					
RNA-SEQ-HUHALLTP-184	3	ENSG00000152439	ZNF773	zinc finger protein 773 [Source:HGNC Symbol;Acc:HGNC:30487]					
RNA-SEQ-HUHALLTP-185	3	ENSG00000253616		novel transcript					
RNA-SEQ-HUHALLTP-185	3	ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]					
RNA-SEQ-HUHALLTP-185	3	ENSG00000148143	ZNF462	zinc finger protein 462 [Source:HGNC Symbol;Acc:HGNC:21684]					
RNA-SEQ-HUHALLTP-186	2	ENSG00000180921	FAM83H	family with sequence similarity 83 member H [Source:HGNC Symbol;Acc:HGNC:24797]					
RNA-SEQ-HUHALLTP-186	2	ENSG00000107957	SH3PXD2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:HGNC:23664]					
RNA-SEQ-HUHALLTP-187	2	ENSG00000104140	RHOV	ras homolog family member V [Source:HGNC Symbol;Acc:HGNC:18313]					

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-187	2	ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]		
RNA-SEQ-HUHALLTP-188	6	ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]		
RNA-SEQ-HUHALLTP-188	6	ENSG00000196743	GM2A	GM2 ganglioside activator [Source:HGNC Symbol;Acc:HGNC:4367]		
RNA-SEQ-HUHALLTP-188	6	ENSG00000138308	PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]		
RNA-SEQ-HUHALLTP-188	6	ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]		
RNA-SEQ-HUHALLTP-188	6	ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]		
RNA-SEQ-HUHALLTP-188	6	ENSG00000112394	SLC16A10	solute carrier family 16 member 10 [Source:HGNC Symbol;Acc:HGNC:17027]		
RNA-SEQ-HUHALLTP-189	3	ENSG00000260822		novel transcript, overlapping to PDK3		
RNA-SEQ-HUHALLTP-189	3	ENSG00000137135	ARHGEF39	Rho guanine nucleotide exchange factor 39 [Source:HGNC Symbol;Acc:HGNC:25909]		
RNA-SEQ-HUHALLTP-189	3	ENSG00000167081	PBX3	PBX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:8634]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198899	MT-ATP6	mitochondrially encoded ATP synthase membrane subunit 6 [Source:HGNC Symbol;Acc:HGNC:7414]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198804	MT-CO1	mitochondrially encoded cytochrome c oxidase I [Source:HGNC Symbol;Acc:HGNC:7419]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198712	MT-CO2	mitochondrially encoded cytochrome c oxidase II [Source:HGNC Symbol;Acc:HGNC:7421]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198938	MT-CO3	mitochondrially encoded cytochrome c oxidase III [Source:HGNC Symbol;Acc:HGNC:7422]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198727	MT-CYB	mitochondrially encoded cytochrome b [Source:HGNC Symbol;Acc:HGNC:7427]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198888	MT-ND1	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 1 [Source:HGNC Symbol;Acc:HGNC:7455]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198763	MT-ND2	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 2 [Source:HGNC Symbol;Acc:HGNC:7456]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198840	MT-ND3	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3 [Source:HGNC Symbol;Acc:HGNC:7458]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198886	MT-ND4	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4 [Source:HGNC Symbol;Acc:HGNC:7459]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000212907	MT-ND4L	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4L [Source:HGNC Symbol;Acc:HGNC:7460]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198786	MT-ND5	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 5 [Source:HGNC Symbol;Acc:HGNC:7461]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000198695	MT-ND6	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 6 [Source:HGNC Symbol;Acc:HGNC:7462]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000225630	MTND2P28	MT-ND2 pseudogene 28 [Source:HGNC Symbol;Acc:HGNC:42129]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000264229	RNU4ATAC	RNA, U4atac small nuclear (U12-dependent splicing) [Source:HGNC Symbol;Acc:HGNC:34016]		
RNA-SEQ-HUHALLTP-190	15	ENSG00000252577	SCARNA20	small Cajal body-specific RNA 20 [Source:HGNC Symbol;Acc:HGNC:32578]		
RNA-SEQ-HUHALLTP-191	6	ENSG00000136068	FLNB	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]		
RNA-SEQ-HUHALLTP-191	6	ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]		
RNA-SEQ-HUHALLTP-191	6	ENSG00000110048	OSBP	oxysterol binding protein [Source:HGNC Symbol;Acc:HGNC:8503]		
RNA-SEQ-HUHALLTP-191	6	ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]		
RNA-SEQ-HUHALLTP-191	6	ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]		
RNA-SEQ-HUHALLTP-191	6	ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-192	3	ENSG00000247796				
RNA-SEQ-HUHALLTP-192	3	ENSG00000205871	RPS3AP47	ribosomal protein S3a pseudogene 47 [Source:HGNC Symbol;Acc:HGNC:36744]		
RNA-SEQ-HUHALLTP-192	3	ENSG00000117586	TNFSF4	TNF superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:11934]		
RNA-SEQ-HUHALLTP-193	4	ENSG00000244331		ribosomal protein, large, P2 (RPLP2) pseudogene		
RNA-SEQ-HUHALLTP-193	4	ENSG00000124243	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:HGNC:14367]		
RNA-SEQ-HUHALLTP-193	4	ENSG00000165556	CDX2	caudal type homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1806]		
RNA-SEQ-HUHALLTP-193	4	ENSG00000157470	FAM81A	family with sequence similarity 81 member A [Source:HGNC Symbol;Acc:HGNC:28379]		
RNA-SEQ-HUHALLTP-194	2	ENSG00000244256	RN7SL130P	RNA, 7SL, cytoplasmic 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:46146]		
RNA-SEQ-HUHALLTP-194	2	ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]		
RNA-SEQ-HUHALLTP-195	5	ENSG00000200834				
RNA-SEQ-HUHALLTP-195	5	ENSG00000206822				
RNA-SEQ-HUHALLTP-195	5	ENSG00000251411		actin related protein 2/3 complex, subunit 1A, 41kDa (ARPC1A) pseudogene		
RNA-SEQ-HUHALLTP-195	5	ENSG00000183298	RPSAP19	ribosomal protein SA pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:36508]		
RNA-SEQ-HUHALLTP-195	5	ENSG00000051596	THOC3	THO complex 3 [Source:HGNC Symbol;Acc:HGNC:19072]		
RNA-SEQ-HUHALLTP-196	3	ENSG00000178301	AQP11	aquaporin 11 [Source:HGNC Symbol;Acc:HGNC:19940]		
RNA-SEQ-HUHALLTP-196	3	ENSG00000237913	FTLP19	ferritin light chain pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:37969]		
RNA-SEQ-HUHALLTP-196	3	ENSG00000199377	RNU5F-1	RNA, U5F small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10216]		
RNA-SEQ-HUHALLTP-197	2	ENSG00000238516				
RNA-SEQ-HUHALLTP-197	2	ENSG00000242060	RPS3AP49	ribosomal protein S3a pseudogene 49 [Source:HGNC Symbol;Acc:HGNC:36810]		
RNA-SEQ-HUHALLTP-198	3	ENSG00000200314				
RNA-SEQ-HUHALLTP-198	3	ENSG00000200494				
RNA-SEQ-HUHALLTP-198	3	ENSG00000201196				
RNA-SEQ-HUHALLTP-199	2	ENSG00000175505	CLCF1	cardiotrophin like cytokine factor 1 [Source:HGNC Symbol;Acc:HGNC:17412]		
RNA-SEQ-HUHALLTP-199	2	ENSG00000132793	LPIN3	lipin 3 [Source:HGNC Symbol;Acc:HGNC:14451]		
RNA-SEQ-HUHALLTP-200	4	ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]		
RNA-SEQ-HUHALLTP-200	4	ENSG00000104957	CCDC130	coiled-coil domain containing 130 [Source:HGNC Symbol;Acc:HGNC:28118]		
RNA-SEQ-HUHALLTP-200	4	ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]		
RNA-SEQ-HUHALLTP-200	4	ENSG00000108622	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:5345]		
RNA-SEQ-HUHALLTP-201	3	ENSG00000131797	CLUHP3	clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447]		
RNA-SEQ-HUHALLTP-201	3	ENSG00000164535	DAGLB	diacylglycerol lipase beta [Source:HGNC Symbol;Acc:HGNC:28923]		
RNA-SEQ-HUHALLTP-201	3	ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-202	3	ENSG00000164850	GPER1	G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:4485]		
RNA-SEQ-HUHALLTP-202	3	ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]		
RNA-SEQ-HUHALLTP-202	3	ENSG00000235169	SMIM1	small integral membrane protein 1 (Vel blood group) [Source:HGNC Symbol;Acc:HGNC:44204]		
RNA-SEQ-HUHALLTP-203	3	ENSG00000162650	ATXN7L2	ataxin 7 like 2 [Source:HGNC Symbol;Acc:HGNC:28713]		
RNA-SEQ-HUHALLTP-203	3	ENSG00000176473	WDR25	WD repeat domain 25 [Source:HGNC Symbol;Acc:HGNC:21064]		
RNA-SEQ-HUHALLTP-203	3	ENSG00000170631	ZNF16	zinc finger protein 16 [Source:HGNC Symbol;Acc:HGNC:12947]		
RNA-SEQ-HUHALLTP-204	6	ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]		
RNA-SEQ-HUHALLTP-204	6	ENSG00000169087	HSPBAP1	HSPB1 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16389]		
RNA-SEQ-HUHALLTP-204	6	ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]		
RNA-SEQ-HUHALLTP-204	6	ENSG00000140471	LINS1	lins homolog 1 [Source:HGNC Symbol;Acc:HGNC:30922]		
RNA-SEQ-HUHALLTP-204	6	ENSG00000164190	NIPBL	NIPBL, cohesin loading factor [Source:HGNC Symbol;Acc:HGNC:28862]		
RNA-SEQ-HUHALLTP-204	6	ENSG00000123595	RAB9A	RAB9A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9792]		
RNA-SEQ-HUHALLTP-205	3	ENSG00000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]		
RNA-SEQ-HUHALLTP-205	3	ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]		
RNA-SEQ-HUHALLTP-205	3	ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]		
RNA-SEQ-HUHALLTP-206	2	ENSG00000163501	IHH	indian hedgehog [Source:HGNC Symbol;Acc:HGNC:5956]		
RNA-SEQ-HUHALLTP-206	2	ENSG00000122861	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:HGNC:9052]		
RNA-SEQ-HUHALLTP-207	3	ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]		
RNA-SEQ-HUHALLTP-207	3	ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]		
RNA-SEQ-HUHALLTP-207	3	ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]		
RNA-SEQ-HUHALLTP-208	5	ENSG00000005486	RHBDD2	rhomboid domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23082]		
RNA-SEQ-HUHALLTP-208	5	ENSG00000222376	RN7SKP152	RNA, 7SK small nuclear pseudogene 152 [Source:HGNC Symbol;Acc:HGNC:45876]		
RNA-SEQ-HUHALLTP-208	5	ENSG00000252850	RNU1-117P	RNA, U1 small nuclear 117, pseudogene [Source:HGNC Symbol;Acc:HGNC:48459]		
RNA-SEQ-HUHALLTP-208	5	ENSG00000207175	RNU1-67P	RNA, U1 small nuclear 67, pseudogene [Source:HGNC Symbol;Acc:HGNC:48409]		
RNA-SEQ-HUHALLTP-208	5	ENSG00000238835	SCARNA18	small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]		
RNA-SEQ-HUHALLTP-209	6	ENSG00000114771	AADAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc:HGNC:17]		
RNA-SEQ-HUHALLTP-209	6	ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]		
RNA-SEQ-HUHALLTP-209	6	ENSG00000174684	B4GAT1	beta-1,4-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]		
RNA-SEQ-HUHALLTP-209	6	ENSG00000102996	MMP15	matrix metallopeptidase 15 [Source:HGNC Symbol;Acc:HGNC:7161]		
RNA-SEQ-HUHALLTP-209	6	ENSG00000116005	PCYOX1	prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:HGNC:20588]		
RNA-SEQ-HUHALLTP-209	6	ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-210	3	ENSG00000204859	ZBTB48	zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:HGNC:4930]		
RNA-SEQ-HUHALLTP-210	3	ENSG00000157429	ZNF19	zinc finger protein 19 [Source:HGNC Symbol;Acc:HGNC:12981]		
RNA-SEQ-HUHALLTP-210	3	ENSG00000133624	ZNF767P	zinc finger family member 767, pseudogene [Source:HGNC Symbol;Acc:HGNC:21884]		
RNA-SEQ-HUHALLTP-211	2	ENSG00000187860	CCDC157	coiled-coil domain containing 157 [Source:HGNC Symbol;Acc:HGNC:33854]		
RNA-SEQ-HUHALLTP-211	2	ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]		
RNA-SEQ-HUHALLTP-212	3	ENSG0000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]		
RNA-SEQ-HUHALLTP-212	3	ENSG00000214485	RPL7P1	ribosomal protein L7 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10367]		
RNA-SEQ-HUHALLTP-212	3	ENSG00000240087	RPSAP12	ribosomal protein SA pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:6504]		
RNA-SEQ-HUHALLTP-213	4	ENSG00000267541	MTCO2P2	MTCO2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:25354]		
RNA-SEQ-HUHALLTP-213	4	ENSG00000206702	RNU1-11P	RNA, U1 small nuclear 11, pseudogene [Source:HGNC Symbol;Acc:HGNC:10137]		
RNA-SEQ-HUHALLTP-213	4	ENSG00000199469	RNU1-62P	RNA, U1 small nuclear 62, pseudogene [Source:HGNC Symbol;Acc:HGNC:48404]		
RNA-SEQ-HUHALLTP-213	4	ENSG00000207349	RNVU1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]		
RNA-SEQ-HUHALLTP-214	3	ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]		
RNA-SEQ-HUHALLTP-214	3	ENSG00000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]		
RNA-SEQ-HUHALLTP-214	3	ENSG00000173276	ZBTB21	zinc finger and BTB domain containing 21 [Source:HGNC Symbol;Acc:HGNC:13083]		
RNA-SEQ-HUHALLTP-215	4	ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]		
RNA-SEQ-HUHALLTP-215	4	ENSG00000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]		
RNA-SEQ-HUHALLTP-215	4	ENSG00000152749	GPR180	G protein-coupled receptor 180 [Source:HGNC Symbol;Acc:HGNC:28899]		
RNA-SEQ-HUHALLTP-215	4	ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]		
RNA-SEQ-HUHALLTP-216	3	ENSG00000242101	RN7SL416P	RNA, 7SL, cytoplasmic 416, pseudogene [Source:HGNC Symbol;Acc:HGNC:46432]		
RNA-SEQ-HUHALLTP-216	3	ENSG00000256338	RPL41P2	ribosomal protein L41 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:10357]		
RNA-SEQ-HUHALLTP-216	3	ENSG00000214362	RPS3AP36	ribosomal protein S3a pseudogene 36 [Source:HGNC Symbol;Acc:HGNC:35596]		
RNA-SEQ-HUHALLTP-217	4	ENSG00000215154				
RNA-SEQ-HUHALLTP-217	4	ENSG00000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]		
RNA-SEQ-HUHALLTP-217	4	ENSG00000148356	LRSAM1	leucine rich repeat and sterile alpha motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25135]		
RNA-SEQ-HUHALLTP-217	4	ENSG00000170502	NUDT9	nudix hydrolase 9 [Source:HGNC Symbol;Acc:HGNC:8056]		
RNA-SEQ-HUHALLTP-218	4	ENSG00000213190	MLLT11	MLLT11, transcription factor 7 cofactor [Source:HGNC Symbol;Acc:HGNC:16997]		
RNA-SEQ-HUHALLTP-218	4	ENSG00000228956	SATB1-AS1	SATB1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50687]		
RNA-SEQ-HUHALLTP-218	4	ENSG00000077713	SLC25A43	solute carrier family 25 member 43 [Source:HGNC Symbol;Acc:HGNC:30557]		
RNA-SEQ-HUHALLTP-218	4	ENSG00000259479	SORD2P	sorbitol dehydrogenase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:49919]		
RNA-SEQ-HUHALLTP-219	3	ENSG00000200830	RN7SKP134	RNA, 7SK small nuclear pseudogene 134 [Source:HGNC Symbol;Acc:HGNC:45858]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-219	3	ENSG00000201684	RN7SKP239	RNA, 7SK small nuclear pseudogene 239 [Source:HGNC Symbol;Acc:HGNC:45963]		
RNA-SEQ-HUHALLTP-219	3	ENSG00000223117	RN7SKP296	RNA, 7SK small nuclear pseudogene 296 [Source:HGNC Symbol;Acc:HGNC:46020]		
RNA-SEQ-HUHALLTP-220	4	ENSG0000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]		
RNA-SEQ-HUHALLTP-220	4	ENSG00000144354	CDCA7	cell division cycle associated 7 [Source:HGNC Symbol;Acc:HGNC:14628]		
RNA-SEQ-HUHALLTP-220	4	ENSG00000177350	RPL13AP3	ribosomal protein L13a pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:23539]		
RNA-SEQ-HUHALLTP-220	4	ENSG00000242071	RPL7AP6	ribosomal protein L7a pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:19785]		
RNA-SEQ-HUHALLTP-221	4	ENSG00000213574	LDHAP5	lactate dehydrogenase A pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:6540]		
RNA-SEQ-HUHALLTP-221	4	ENSG00000137497	NUMA1	nuclear mitotic apparatus protein 1 [Source:HGNC Symbol;Acc:HGNC:8059]		
RNA-SEQ-HUHALLTP-221	4	ENSG00000196642	RABL6	RAB, member RAS oncogene family like 6 [Source:HGNC Symbol;Acc:HGNC:24703]		
RNA-SEQ-HUHALLTP-221	4	ENSG00000271303	SRXN1	sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]		
RNA-SEQ-HUHALLTP-222	3	ENSG00000186076		phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene		
RNA-SEQ-HUHALLTP-222	3	ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]		
RNA-SEQ-HUHALLTP-222	3	ENSG00000137970	RPL7P9	ribosomal protein L7 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:37028]		
RNA-SEQ-HUHALLTP-223	4	ENSG00000202144				
RNA-SEQ-HUHALLTP-223	4	ENSG00000207293				
RNA-SEQ-HUHALLTP-223	4	ENSG00000234337		tropomyosin 1 (alpha) (TPM1) pseudogene		
RNA-SEQ-HUHALLTP-223	4	ENSG00000212409	RNY4P18	RNA, Ro-associated Y4 pseudogene 18 [Source:HGNC Symbol;Acc:HGNC:34068]		
RNA-SEQ-HUHALLTP-224	4	ENSG00000179242	CDH4	cadherin 4 [Source:HGNC Symbol;Acc:HGNC:1763]		
RNA-SEQ-HUHALLTP-224	4	ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]		
RNA-SEQ-HUHALLTP-224	4	ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]		
RNA-SEQ-HUHALLTP-224	4	ENSG00000132718	SYT11	synaptotagmin 11 [Source:HGNC Symbol;Acc:HGNC:19239]		
RNA-SEQ-HUHALLTP-225	3	ENSG00000168564	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:HGNC:24325]		
RNA-SEQ-HUHALLTP-225	3	ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]		
RNA-SEQ-HUHALLTP-225	3	ENSG00000277149	TYW1B	tRNA-γ-W synthesizing protein 1 homolog B [Source:HGNC Symbol;Acc:HGNC:33908]		
RNA-SEQ-HUHALLTP-226	5	ENSG00000278099				
RNA-SEQ-HUHALLTP-226	5	ENSG00000146674	IGFBP3	insulin like growth factor binding protein 3 [Source:HGNC Symbol;Acc:HGNC:5472]		
RNA-SEQ-HUHALLTP-226	5	ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]		
RNA-SEQ-HUHALLTP-226	5	ENSG00000163162	RNF149	ring finger protein 149 [Source:HGNC Symbol;Acc:HGNC:23137]		
RNA-SEQ-HUHALLTP-226	5	ENSG00000120451	SNX19	sorting nexin 19 [Source:HGNC Symbol;Acc:HGNC:21532]		
RNA-SEQ-HUHALLTP-227	4	ENSG00000167601	AXL	AXL receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:905]		
RNA-SEQ-HUHALLTP-227	4	ENSG00000080031	PTPRH	protein tyrosine phosphatase, receptor type H [Source:HGNC Symbol;Acc:HGNC:9672]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
CYT	ER					
RNA-SEQ-HUHALLTP-227	4	ENSG00000177058	SLC38A9	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]		
RNA-SEQ-HUHALLTP-227	4	ENSG00000181458	TMEM45A	transmembrane protein 45A [Source:HGNC Symbol;Acc:HGNC:25480]		
RNA-SEQ-HUHALLTP-228	5	ENSG00000268222	EEF1A1P7	eukaryotic translation elongation factor 1 alpha 1 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:3202]		
RNA-SEQ-HUHALLTP-228	5	ENSG00000102781	KATNAL1	katanin catalytic subunit A1 like 1 [Source:HGNC Symbol;Acc:HGNC:28361]		
RNA-SEQ-HUHALLTP-228	5	ENSG00000169752	NRG4	neuregulin 4 [Source:HGNC Symbol;Acc:HGNC:29862]		
RNA-SEQ-HUHALLTP-228	5	ENSG00000073905	VDAC1P1	voltage dependent anion channel 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:12671]		
RNA-SEQ-HUHALLTP-228	5	ENSG00000213866	YBX1P10	Y-box binding protein 1 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:42432]		
RNA-SEQ-HUHALLTP-229	3	ENSG00000143753	DEGS1	delta 4-desaturase, sphingolipid 1 [Source:HGNC Symbol;Acc:HGNC:13709]		
RNA-SEQ-HUHALLTP-229	3	ENSG00000252294	RNU6-589P	RNA, U6 small nuclear 589, pseudogene [Source:HGNC Symbol;Acc:HGNC:47552]		
RNA-SEQ-HUHALLTP-229	3	ENSG00000146828	SLC12A9	solute carrier family 12 member 9 [Source:HGNC Symbol;Acc:HGNC:17435]		
RNA-SEQ-HUHALLTP-230	2	ENSG00000254166	CASC19	cancer susceptibility 19 [Source:HGNC Symbol;Acc:HGNC:49476]		
RNA-SEQ-HUHALLTP-230	2	ENSG00000251022	THAP9-AS1	THAP9 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44172]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000250348		novel transcript		
RNA-SEQ-HUHALLTP-231	8	ENSG00000164237	CMBL	carboxymethylenebutenolidase homolog [Source:HGNC Symbol;Acc:HGNC:25090]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000141738	GRB7	growth factor receptor bound protein 7 [Source:HGNC Symbol;Acc:HGNC:4567]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000256937	KRT17P8	keratin 17 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:50726]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000167355	OR51B5	olfactory receptor family 51 subfamily B member 5 [Source:HGNC Symbol;Acc:HGNC:19599]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]		
RNA-SEQ-HUHALLTP-231	8	ENSG00000163032	VSNL1	visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]		
RNA-SEQ-HUHALLTP-232	4	ENSG00000271394				
RNA-SEQ-HUHALLTP-232	4	ENSG00000202395	RN7SKP1	RNA, 7SK small nuclear pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42619]		
RNA-SEQ-HUHALLTP-232	4	ENSG00000222465	RNU2-5P	RNA, U2 small nuclear 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10155]		
RNA-SEQ-HUHALLTP-232	4	ENSG00000201998	SNORA23	small nucleolar RNA, H/ACA box 23 [Source:HGNC Symbol;Acc:HGNC:32613]		
RNA-SEQ-HUHALLTP-233	4	ENSG00000244062		acyl-CoA synthetase long-chain family member 3 (ACSL3) pseudogene		
RNA-SEQ-HUHALLTP-233	4	ENSG00000279738		novel transcript, sense overlapping to EIF3L		
RNA-SEQ-HUHALLTP-233	4	ENSG00000187942	LDLRAD2	low density lipoprotein receptor class A domain containing 2 [Source:HGNC Symbol;Acc:HGNC:32071]		
RNA-SEQ-HUHALLTP-233	4	ENSG00000198771	RCSD1	RCSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28310]		
RNA-SEQ-HUHALLTP-234	3	ENSG0000005187	ACSM3	acyl-CoA synthetase medium chain family member 3 [Source:HGNC Symbol;Acc:HGNC:10522]		
RNA-SEQ-HUHALLTP-234	3	ENSG00000152056	AP1S3	adaptor related protein complex 1 subunit sigma 3 [Source:HGNC Symbol;Acc:HGNC:18971]		
RNA-SEQ-HUHALLTP-234	3	ENSG00000134871	COL4A2	collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-235	3	ENSG00000273559	CWC25	CWC25 spliceosome associated protein homolog [Source:HGNC Symbol;Acc:HGNC:25989]		
RNA-SEQ-HUHALLTP-235	3	ENSG00000229644	NAMPTP1	nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633]		
RNA-SEQ-HUHALLTP-235	3	ENSG00000248049	UBA6-AS1	UBA6 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49083]		
RNA-SEQ-HUHALLTP-236	4	ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]		
RNA-SEQ-HUHALLTP-236	4	ENSG00000262001	DLGAP1-AS2	DLGAP1 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:28146]		
RNA-SEQ-HUHALLTP-236	4	ENSG00000100100	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24942]		
RNA-SEQ-HUHALLTP-236	4	ENSG00000197647	ZNF433	zinc finger protein 433 [Source:HGNC Symbol;Acc:HGNC:20811]		
RNA-SEQ-HUHALLTP-237	5	ENSG00000189362	NEMP2	nuclear envelope integral membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:33700]		
RNA-SEQ-HUHALLTP-237	5	ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]		
RNA-SEQ-HUHALLTP-237	5	ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]		
RNA-SEQ-HUHALLTP-237	5	ENSG00000096092	TMEM14A	transmembrane protein 14A [Source:HGNC Symbol;Acc:HGNC:21076]		
RNA-SEQ-HUHALLTP-237	5	ENSG00000127324	TSPAN8	tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:11855]		
RNA-SEQ-HUHALLTP-238	4	ENSG00000134343	ANO3	anoctamin 3 [Source:HGNC Symbol;Acc:HGNC:14004]		
RNA-SEQ-HUHALLTP-238	4	ENSG00000181218	HIST3H2A	histone cluster 3 H2A [Source:HGNC Symbol;Acc:HGNC:20507]		
RNA-SEQ-HUHALLTP-238	4	ENSG00000168826	ZBTB49	zinc finger and BTB domain containing 49 [Source:HGNC Symbol;Acc:HGNC:19883]		
RNA-SEQ-HUHALLTP-238	4	ENSG00000083817	ZNF416	zinc finger protein 416 [Source:HGNC Symbol;Acc:HGNC:20645]		
RNA-SEQ-HUHALLTP-239	6	ENSG00000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]		
RNA-SEQ-HUHALLTP-239	6	ENSG00000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]		
RNA-SEQ-HUHALLTP-239	6	ENSG00000178467	P4HTM	prolyl 4-hydroxylase, transmembrane [Source:HGNC Symbol;Acc:HGNC:28858]		
RNA-SEQ-HUHALLTP-239	6	ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]		
RNA-SEQ-HUHALLTP-239	6	ENSG00000143303	RRNAD1	ribosomal RNA adenine dimethylase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:24273]		
RNA-SEQ-HUHALLTP-239	6	ENSG00000185339	TCN2	transcobalamin 2 [Source:HGNC Symbol;Acc:HGNC:11653]		
RNA-SEQ-HUHALLTP-240	2	ENSG00000203812	HIST2H2AA3	histone cluster 2 H2A family member a3 [Source:HGNC Symbol;Acc:HGNC:4736]		
RNA-SEQ-HUHALLTP-240	2	ENSG00000207870	MIR221	microRNA 221 [Source:HGNC Symbol;Acc:HGNC:31601]		
RNA-SEQ-HUHALLTP-241	5	ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]		
RNA-SEQ-HUHALLTP-241	5	ENSG00000092853	CLSPN	claspin [Source:HGNC Symbol;Acc:HGNC:19715]		
RNA-SEQ-HUHALLTP-241	5	ENSG00000080819	CPOX	coproporphyrinogen oxidase [Source:HGNC Symbol;Acc:HGNC:2321]		
RNA-SEQ-HUHALLTP-241	5	ENSG00000154822	PLCL2	phospholipase C like 2 [Source:HGNC Symbol;Acc:HGNC:9064]		
RNA-SEQ-HUHALLTP-241	5	ENSG00000161888	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]		
RNA-SEQ-HUHALLTP-242	2	ENSG00000135127	BICDL1	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]		
RNA-SEQ-HUHALLTP-242	2	ENSG00000226715	LINC01709	long intergenic non-protein coding RNA 1709 [Source:HGNC Symbol;Acc:HGNC:52497]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-243	5	ENSG00000183807	FAM162B	family with sequence similarity 162 member B [Source:HGNC Symbol;Acc:HGNC:21549]		
RNA-SEQ-HUHALLTP-243	5	ENSG00000215424	MCM3AP-AS1	MCM3AP antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:16417]		
RNA-SEQ-HUHALLTP-243	5	ENSG00000248643	RBM14-RBM4	RBM14-RBM4 readthrough [Source:HGNC Symbol;Acc:HGNC:38840]		
RNA-SEQ-HUHALLTP-243	5	ENSG00000252996	RNU6-1315P	RNA, U6 small nuclear 1315, pseudogene [Source:HGNC Symbol;Acc:HGNC:48278]		
RNA-SEQ-HUHALLTP-243	5	ENSG00000102125	TAZ	tafazzin [Source:HGNC Symbol;Acc:HGNC:11577]		
RNA-SEQ-HUHALLTP-244	2	ENSG00000226067	LINC00623	long intergenic non-protein coding RNA 623 [Source:HGNC Symbol;Acc:HGNC:44252]		
RNA-SEQ-HUHALLTP-244	2	ENSG00000145014	TMEM44	transmembrane protein 44 [Source:HGNC Symbol;Acc:HGNC:25120]		
RNA-SEQ-HUHALLTP-245	4	ENSG00000081051	AFP	alpha fetoprotein [Source:HGNC Symbol;Acc:HGNC:317]		
RNA-SEQ-HUHALLTP-245	4	ENSG00000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]		
RNA-SEQ-HUHALLTP-245	4	ENSG00000170099	SERPINA6	serpin family A member 6 [Source:HGNC Symbol;Acc:HGNC:1540]		
RNA-SEQ-HUHALLTP-245	4	ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]		
RNA-SEQ-HUHALLTP-246	4	ENSG00000160298	C21orf58	chromosome 21 open reading frame 58 [Source:HGNC Symbol;Acc:HGNC:1300]		
RNA-SEQ-HUHALLTP-246	4	ENSG00000103707	MTFMT	mitochondrial methionyl-tRNA formyltransferase [Source:HGNC Symbol;Acc:HGNC:29666]		
RNA-SEQ-HUHALLTP-246	4	ENSG00000263905	RN7SL555P	RNA, 7SL, cytoplasmic 555, pseudogene [Source:HGNC Symbol;Acc:HGNC:46571]		
RNA-SEQ-HUHALLTP-246	4	ENSG00000244722	RPSAP29	ribosomal protein SA pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:36680]		
RNA-SEQ-HUHALLTP-247	2	ENSG00000259614		tubulin, alpha 1a (TUBA1A) pseudogene		
RNA-SEQ-HUHALLTP-247	2	ENSG00000230897	RPS18P12	ribosomal protein S18 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:35967]		
RNA-SEQ-HUHALLTP-248	3	ENSG00000283414				
RNA-SEQ-HUHALLTP-248	3	ENSG00000157087	ATP2B2	ATPase plasma membrane Ca2+ transporting 2 [Source:HGNC Symbol;Acc:HGNC:815]		
RNA-SEQ-HUHALLTP-248	3	ENSG00000132677	RHBG	Rh family B glycoprotein (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:14572]		
RNA-SEQ-HUHALLTP-249	2	ENSG00000260668		emopamil binding protein-like (EBPL) pseudogene		
RNA-SEQ-HUHALLTP-249	2	ENSG00000173262	SLC2A14	solute carrier family 2 member 14 [Source:HGNC Symbol;Acc:HGNC:18301]		
RNA-SEQ-HUHALLTP-250	4	ENSG00000148926	ADM	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]		
RNA-SEQ-HUHALLTP-250	4	ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]		
RNA-SEQ-HUHALLTP-250	4	ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]		
RNA-SEQ-HUHALLTP-250	4	ENSG00000166145	SPINT1	serine peptidase inhibitor, Kunitz type 1 [Source:HGNC Symbol;Acc:HGNC:11246]		
RNA-SEQ-HUHALLTP-251	4	ENSG00000200737				
RNA-SEQ-HUHALLTP-251	4	ENSG00000201031				
RNA-SEQ-HUHALLTP-251	4	ENSG00000280434		novel transcript, sense overlapping PARVB		
RNA-SEQ-HUHALLTP-251	4	ENSG00000151743	AMN1	antagonist of mitotic exit network 1 homolog [Source:HGNC Symbol;Acc:HGNC:27281]		
RNA-SEQ-HUHALLTP-252	7	ENSG00000225200		ribosomal protein S8 (RPS8) pseudogene		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-252	7	ENSG00000236449		novel transcript, antisense to WIPF1 and CHRNA1		
RNA-SEQ-HUHALLTP-252	7	ENSG00000259020		prothymosin, alpha (PTMA) pseudogene		
RNA-SEQ-HUHALLTP-252	7	ENSG00000149925	ALDOA	aldolase, fructose-bisphosphate A [Source:HGNC Symbol;Acc:HGNC:414]		
RNA-SEQ-HUHALLTP-252	7	ENSG00000250182	EEF1A1P13	eukaryotic translation elongation factor 1 alpha 1 pseudogene 13 [Source:HGNC Symbol;Acc:HGNC:3196]		
RNA-SEQ-HUHALLTP-252	7	ENSG00000257907	EEF1A1P17	eukaryotic translation elongation factor 1 alpha 1 pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37890]		
RNA-SEQ-HUHALLTP-252	7	ENSG00000132879	FBXO44	F-box protein 44 [Source:HGNC Symbol;Acc:HGNC:24847]		
RNA-SEQ-HUHALLTP-253	4	ENSG00000187288	CIDEc	cell death inducing DFFA like effector c [Source:HGNC Symbol;Acc:HGNC:24229]		
RNA-SEQ-HUHALLTP-253	4	ENSG00000233952	FTLP15	ferritin light chain pseudogene 15 [Source:HGNC Symbol;Acc:HGNC:37965]		
RNA-SEQ-HUHALLTP-253	4	ENSG00000137880	GCHFR	GTP cyclohydrolase I feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]		
RNA-SEQ-HUHALLTP-253	4	ENSG00000100034	PPM1F	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1F [Source:HGNC Symbol;Acc:HGNC:19388]		
RNA-SEQ-HUHALLTP-254	4	ENSG00000244067	GSTA2	glutathione S-transferase alpha 2 [Source:HGNC Symbol;Acc:HGNC:4627]		
RNA-SEQ-HUHALLTP-254	4	ENSG00000134184	GSTM1	glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:HGNC:4632]		
RNA-SEQ-HUHALLTP-254	4	ENSG00000065057	NTHL1	nth like DNA glycosylase 1 [Source:HGNC Symbol;Acc:HGNC:8028]		
RNA-SEQ-HUHALLTP-254	4	ENSG00000198056	PRIM1	DNA primase subunit 1 [Source:HGNC Symbol;Acc:HGNC:9369]		
RNA-SEQ-HUHALLTP-255	3	ENSG00000139292	LGR5	leucine rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:HGNC:4504]		
RNA-SEQ-HUHALLTP-255	3	ENSG00000207115	RNU6-364P	RNA, U6 small nuclear 364, pseudogene [Source:HGNC Symbol;Acc:HGNC:47327]		
RNA-SEQ-HUHALLTP-255	3	ENSG00000207428	RNU6-95P	RNA, U6 small nuclear 95, pseudogene [Source:HGNC Symbol;Acc:HGNC:47058]		
RNA-SEQ-HUHALLTP-256	3	ENSG00000116731	PRDM2	PR/SET domain 2 [Source:HGNC Symbol;Acc:HGNC:9347]		
RNA-SEQ-HUHALLTP-256	3	ENSG00000132639	SNAP25	synaptosome associated protein 25 [Source:HGNC Symbol;Acc:HGNC:11132]		
RNA-SEQ-HUHALLTP-256	3	ENSG00000173480	ZNF417	zinc finger protein 417 [Source:HGNC Symbol;Acc:HGNC:20646]		
RNA-SEQ-HUHALLTP-257	3	ENSG00000101417	PXMP4	peroxisomal membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15920]		
RNA-SEQ-HUHALLTP-257	3	ENSG00000145248	SLC10A4	solute carrier family 10 member 4 [Source:HGNC Symbol;Acc:HGNC:22980]		
RNA-SEQ-HUHALLTP-257	3	ENSG00000158156	XKR8	XK related 8 [Source:HGNC Symbol;Acc:HGNC:25508]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000182858	ALG12	ALG12, alpha-1,6-mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:19358]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000085063	CD59	CD59 molecule (CD59 blood group) [Source:HGNC Symbol;Acc:HGNC:1689]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000159348	CYB5R1	cytochrome b5 reductase 1 [Source:HGNC Symbol;Acc:HGNC:13397]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000140465	CYP1A1	cytochrome P450 family 1 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2595]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000213614	HEXA	hexosaminidase subunit alpha [Source:HGNC Symbol;Acc:HGNC:4878]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000090530	P3H2	prolyl 3-hydroxylase 2 [Source:HGNC Symbol;Acc:HGNC:19317]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000072682	P4HA2	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000201271	RNU1-112P	RNA, U1 small nuclear 112, pseudogene [Source:HGNC Symbol;Acc:HGNC:48454]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-258	10	ENSG00000136868	SLC31A1	solute carrier family 31 member 1 [Source:HGNC Symbol;Acc:HGNC:11016]		
RNA-SEQ-HUHALLTP-258	10	ENSG00000099203	TMED1	transmembrane p24 trafficking protein 1 [Source:HGNC Symbol;Acc:HGNC:17291]		
RNA-SEQ-HUHALLTP-259	3	ENSG00000162614	NEXN	nexilin F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:29557]		
RNA-SEQ-HUHALLTP-259	3	ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]		
RNA-SEQ-HUHALLTP-259	3	ENSG00000138050	THUMPD2	THUMP domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14890]		
RNA-SEQ-HUHALLTP-260	3	ENSG00000264112		novel transcript		
RNA-SEQ-HUHALLTP-260	3	ENSG0000010318	PHF7	PHD finger protein 7 [Source:HGNC Symbol;Acc:HGNC:18458]		
RNA-SEQ-HUHALLTP-260	3	ENSG00000180581	SRP9P1	signal recognition particle 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23402]		
RNA-SEQ-HUHALLTP-261	5	ENSG00000196526	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24017]		
RNA-SEQ-HUHALLTP-261	5	ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]		
RNA-SEQ-HUHALLTP-261	5	ENSG00000138119	MYOF	myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]		
RNA-SEQ-HUHALLTP-261	5	ENSG00000141384	TAF4B	TATA-box binding protein associated factor 4b [Source:HGNC Symbol;Acc:HGNC:11538]		
RNA-SEQ-HUHALLTP-261	5	ENSG00000165861	ZFYVE1	zinc finger FYVE-type containing 1 [Source:HGNC Symbol;Acc:HGNC:13180]		
RNA-SEQ-HUHALLTP-262	9	ENSG00000199285				
RNA-SEQ-HUHALLTP-262	9	ENSG00000199366				
RNA-SEQ-HUHALLTP-262	9	ENSG00000200651				
RNA-SEQ-HUHALLTP-262	9	ENSG00000213757		ribosomal protein S3A (RPS3A) pseudogene		
RNA-SEQ-HUHALLTP-262	9	ENSG00000223478				
RNA-SEQ-HUHALLTP-262	9	ENSG00000133983	COX16	cytochrome c oxidase assembly factor COX16 [Source:HGNC Symbol;Acc:HGNC:20213]		
RNA-SEQ-HUHALLTP-262	9	ENSG00000223529	EEF1A1P8	eukaryotic translation elongation factor 1 alpha 1 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:3203]		
RNA-SEQ-HUHALLTP-262	9	ENSG00000127920	GNG11	G protein subunit gamma 11 [Source:HGNC Symbol;Acc:HGNC:4403]		
RNA-SEQ-HUHALLTP-262	9	ENSG00000118733	OLFM3	olfactomedin 3 [Source:HGNC Symbol;Acc:HGNC:17990]		
RNA-SEQ-HUHALLTP-263	4	ENSG00000258429	PDF	peptide deformylase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:30012]		
RNA-SEQ-HUHALLTP-263	4	ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]		
RNA-SEQ-HUHALLTP-263	4	ENSG00000239742	RN7SL672P	RNA, 7SL, cytoplasmic 672, pseudogene [Source:HGNC Symbol;Acc:HGNC:46688]		
RNA-SEQ-HUHALLTP-263	4	ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]		
RNA-SEQ-HUHALLTP-264	4	ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]		
RNA-SEQ-HUHALLTP-264	4	ENSG00000223229	RN7SKP270	RNA, 7SK small nuclear pseudogene 270 [Source:HGNC Symbol;Acc:HGNC:45994]		
RNA-SEQ-HUHALLTP-264	4	ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]		
RNA-SEQ-HUHALLTP-264	4	ENSG00000199812	RNU6-428P	RNA, U6 small nuclear 428, pseudogene [Source:HGNC Symbol;Acc:HGNC:47391]		
RNA-SEQ-HUHALLTP-265	8	ENSG00000124508	BTN2A2	butyrophilin subfamily 2 member A2 [Source:HGNC Symbol;Acc:HGNC:1137]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
CYT	ER					
RNA-SEQ-HUHALLTP-265	8	ENSG0000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]		
RNA-SEQ-HUHALLTP-265	8	ENSG0000173230	GOLGB1	golgin B1 [Source:HGNC Symbol;Acc:HGNC:4429]		
RNA-SEQ-HUHALLTP-265	8	ENSG0000127528	KLF2	Kruppel like factor 2 [Source:HGNC Symbol;Acc:HGNC:6347]		
RNA-SEQ-HUHALLTP-265	8	ENSG0000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like [Source:HGNC Symbol;Acc:HGNC:15797]		
RNA-SEQ-HUHALLTP-265	8	ENSG0000025796	SEC63	SEC63 homolog, protein translocation regulator [Source:HGNC Symbol;Acc:HGNC:21082]		
RNA-SEQ-HUHALLTP-265	8	ENSG0000092969	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]		
RNA-SEQ-HUHALLTP-265	8	ENSG0000170537	TMC7	transmembrane channel like 7 [Source:HGNC Symbol;Acc:HGNC:23000]		
RNA-SEQ-HUHALLTP-266	3	ENSG0000235776		ribosomal protein L7a (RPL7A) pseudogene		
RNA-SEQ-HUHALLTP-266	3	ENSG0000279673		TEC		
RNA-SEQ-HUHALLTP-266	3	ENSG0000262519	TXNP4	thioredoxin pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:49484]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000259697		novel transcript		
RNA-SEQ-HUHALLTP-267	9	ENSG0000240306	RN7SL100P	RNA, 7SL, cytoplasmic 100, pseudogene [Source:HGNC Symbol;Acc:HGNC:46116]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000240997	RN7SL183P	RNA, 7SL, cytoplasmic 183, pseudogene [Source:HGNC Symbol;Acc:HGNC:46199]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000240767	RN7SL288P	RNA, 7SL, cytoplasmic 288, pseudogene [Source:HGNC Symbol;Acc:HGNC:46304]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000265486	RN7SL518P	RNA, 7SL, cytoplasmic 518, pseudogene [Source:HGNC Symbol;Acc:HGNC:46534]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000243420	RN7SL734P	RNA, 7SL, cytoplasmic 734, pseudogene [Source:HGNC Symbol;Acc:HGNC:46750]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]		
RNA-SEQ-HUHALLTP-267	9	ENSG0000225455	TPI1P4	triosephosphate isomerase 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:38071]		
RNA-SEQ-HUHALLTP-268	2	ENSG0000206625	RNU6-1	RNA, U6 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10227]		
RNA-SEQ-HUHALLTP-268	2	ENSG0000111319	SCNN1A	sodium channel epithelial 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:10599]		
RNA-SEQ-HUHALLTP-269	3	ENSG00000265961				
RNA-SEQ-HUHALLTP-269	3	ENSG000002330	BAD	BCL2 associated agonist of cell death [Source:HGNC Symbol;Acc:HGNC:936]		
RNA-SEQ-HUHALLTP-269	3	ENSG0000105289	TJP3	tight junction protein 3 [Source:HGNC Symbol;Acc:HGNC:11829]		
RNA-SEQ-HUHALLTP-270	4	ENSG0000179604	CDC42EP4	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]		
RNA-SEQ-HUHALLTP-270	4	ENSG0000023892	DEF6	DEF6, guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:2760]		
RNA-SEQ-HUHALLTP-270	4	ENSG00000205835	GMNC	geminin coiled-coil domain containing [Source:HGNC Symbol;Acc:HGNC:40049]		
RNA-SEQ-HUHALLTP-270	4	ENSG0000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]		
RNA-SEQ-HUHALLTP-271	5	ENSG0000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]		
RNA-SEQ-HUHALLTP-271	5	ENSG0000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]		
RNA-SEQ-HUHALLTP-271	5	ENSG0000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-271	5	ENSG00000138315	OIT3	oncoprotein induced transcript 3 [Source:HGNC Symbol;Acc:HGNC:29953]		
RNA-SEQ-HUHALLTP-271	5	ENSG00000108576	SLC6A4	solute carrier family 6 member 4 [Source:HGNC Symbol;Acc:HGNC:11050]		
RNA-SEQ-HUHALLTP-272	3	ENSG00000108602	ALDH3A1	aldehyde dehydrogenase 3 family member A1 [Source:HGNC Symbol;Acc:HGNC:405]		
RNA-SEQ-HUHALLTP-272	3	ENSG00000223467	CALM1P1	calmodulin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:1443]		
RNA-SEQ-HUHALLTP-272	3	ENSG00000198088	NUP62CL	nucleoporin 62 C-terminal like [Source:HGNC Symbol;Acc:HGNC:25960]		
RNA-SEQ-HUHALLTP-273	3	ENSG00000142408	CACNG8	calcium voltage-gated channel auxiliary subunit gamma 8 [Source:HGNC Symbol;Acc:HGNC:13628]		
RNA-SEQ-HUHALLTP-273	3	ENSG00000207083	RNU6-22P	RNA, U6 small nuclear 22, pseudogene [Source:HGNC Symbol;Acc:HGNC:34266]		
RNA-SEQ-HUHALLTP-273	3	ENSG00000158062	UBXN11	UBX domain protein 11 [Source:HGNC Symbol;Acc:HGNC:30600]		
RNA-SEQ-HUHALLTP-274	4	ENSG00000198841	KTL12	KTL12 chromatin associated homolog [Source:HGNC Symbol;Acc:HGNC:25160]		
RNA-SEQ-HUHALLTP-274	4	ENSG00000151846	PABPC3	poly(A) binding protein cytoplasmic 3 [Source:HGNC Symbol;Acc:HGNC:8556]		
RNA-SEQ-HUHALLTP-274	4	ENSG00000177666	PNPLA2	patatin like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30802]		
RNA-SEQ-HUHALLTP-274	4	ENSG00000132801	ZSWIM3	zinc finger SWIM-type containing 3 [Source:HGNC Symbol;Acc:HGNC:16157]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000199368	RNU6-1084P	RNA, U6 small nuclear 1084, pseudogene [Source:HGNC Symbol;Acc:HGNC:48047]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000206954	RNU6-1201P	RNA, U6 small nuclear 1201, pseudogene [Source:HGNC Symbol;Acc:HGNC:48164]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000207204	RNU6-393P	RNA, U6 small nuclear 393, pseudogene [Source:HGNC Symbol;Acc:HGNC:47356]		
RNA-SEQ-HUHALLTP-275	7	ENSG00000207261	RNU6-738P	RNA, U6 small nuclear 738, pseudogene [Source:HGNC Symbol;Acc:HGNC:47701]		
RNA-SEQ-HUHALLTP-276	2	ENSG00000239899	RN7SL674P	RNA, 7SL, cytoplasmic 674, pseudogene [Source:HGNC Symbol;Acc:HGNC:46690]		
RNA-SEQ-HUHALLTP-276	2	ENSG00000276653	RN7SL856P	RNA, 7SL, cytoplasmic 856, pseudogene [Source:HGNC Symbol;Acc:HGNC:46872]		
RNA-SEQ-HUHALLTP-276	6	ENSG00000189114	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3 [Source:HGNC Symbol;Acc:HGNC:20914]		
RNA-SEQ-HUHALLTP-277	6	ENSG00000033100	CHPF2	chondroitin polymerizing factor 2 [Source:HGNC Symbol;Acc:HGNC:29270]		
RNA-SEQ-HUHALLTP-277	6	ENSG00000040531	CTNS	cystinosin, lysosomal cystine transporter [Source:HGNC Symbol;Acc:HGNC:2518]		
RNA-SEQ-HUHALLTP-277	6	ENSG00000196547	MAN2A2	mannosidase alpha class 2A member 2 [Source:HGNC Symbol;Acc:HGNC:6825]		
RNA-SEQ-HUHALLTP-277	6	ENSG00000050344	NFE2L3	nuclear factor, erythroid 2 like 3 [Source:HGNC Symbol;Acc:HGNC:7783]		
RNA-SEQ-HUHALLTP-277	6	ENSG00000040487	PQLC2	PQ loop repeat containing 2 [Source:HGNC Symbol;Acc:HGNC:26001]		
RNA-SEQ-HUHALLTP-278	3	ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]		
RNA-SEQ-HUHALLTP-278	3	ENSG00000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]		
RNA-SEQ-HUHALLTP-278	3	ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]		
RNA-SEQ-HUHALLTP-279	5	ENSG00000168811	IL12A	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-279	5	ENSG00000099812	MISP	mitotic spindle positioning [Source:HGNC Symbol;Acc:HGNC:27000]		
RNA-SEQ-HUHALLTP-279	5	ENSG00000229474	PATL2	PAT1 homolog 2 [Source:HGNC Symbol;Acc:HGNC:33630]		
RNA-SEQ-HUHALLTP-279	5	ENSG0000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]		
RNA-SEQ-HUHALLTP-279	5	ENSG0000168026	TTC21A	tetratricopeptide repeat domain 21A [Source:HGNC Symbol;Acc:HGNC:30761]		
RNA-SEQ-HUHALLTP-280	4	ENSG0000207142				
RNA-SEQ-HUHALLTP-280	4	ENSG0000272113				
RNA-SEQ-HUHALLTP-280	4	ENSG0000175984	DENND2C	DENN domain containing 2C [Source:HGNC Symbol;Acc:HGNC:24748]		
RNA-SEQ-HUHALLTP-280	4	ENSG0000179460	EEF1A1P27	eukaryotic translation elongation factor 1 alpha 1 pseudogene 27 [Source:HGNC Symbol;Acc:HGNC:37900]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000181004	BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:HGNC:26648]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000077454	LRCH4	leucine rich repeats and calponin homology domain containing 4 [Source:HGNC Symbol;Acc:HGNC:6691]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000137767	SQOR	sulfide quinone oxidoreductase [Source:HGNC Symbol;Acc:HGNC:20390]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000198075	SULT1C4	sulfotransferase family 1C member 4 [Source:HGNC Symbol;Acc:HGNC:11457]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]		
RNA-SEQ-HUHALLTP-281	7	ENSG0000137185	ZSCAN9	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]		
RNA-SEQ-HUHALLTP-282	4	ENSG0000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]		
RNA-SEQ-HUHALLTP-282	4	ENSG0000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]		
RNA-SEQ-HUHALLTP-282	4	ENSG0000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]		
RNA-SEQ-HUHALLTP-282	4	ENSG0000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]		
RNA-SEQ-HUHALLTP-283	2	ENSG0000261114		novel transcript, sense intronic to HERPUD1		
RNA-SEQ-HUHALLTP-283	2	ENSG0000251432	LINC02615	long intergenic non-protein coding RNA 2615 [Source:HGNC Symbol;Acc:HGNC:53402]		
RNA-SEQ-HUHALLTP-284	3	ENSG0000146090	RASGEF1C	RasGEF domain family member 1C [Source:HGNC Symbol;Acc:HGNC:27400]		
RNA-SEQ-HUHALLTP-284	3	ENSG0000206936	RNU4-52P	RNA, U4 small nuclear 52, pseudogene [Source:HGNC Symbol;Acc:HGNC:46988]		
RNA-SEQ-HUHALLTP-284	3	ENSG0000201183	RNVU1-3	RNA, variant U1 small nuclear 3 [Source:HGNC Symbol;Acc:HGNC:48311]		
RNA-SEQ-HUHALLTP-285	4	ENSG0000280123		TEC		
RNA-SEQ-HUHALLTP-285	4	ENSG0000076555	ACACB	acetyl-CoA carboxylase beta [Source:HGNC Symbol;Acc:HGNC:85]		
RNA-SEQ-HUHALLTP-285	4	ENSG0000070718	AP3M2	adaptor related protein complex 3 subunit mu 2 [Source:HGNC Symbol;Acc:HGNC:570]		
RNA-SEQ-HUHALLTP-285	4	ENSG0000260804	LINC01963	long intergenic non-protein coding RNA 1963 [Source:HGNC Symbol;Acc:HGNC:25283]		
RNA-SEQ-HUHALLTP-286	4	ENSG0000113209	PCDHB5	protocadherin beta 5 [Source:HGNC Symbol;Acc:HGNC:8690]		
RNA-SEQ-HUHALLTP-286	4	ENSG0000102934	PLLP	plasmolipin [Source:HGNC Symbol;Acc:HGNC:18553]		
RNA-SEQ-HUHALLTP-286	4	ENSG0000163581	SLC2A2	solute carrier family 2 member 2 [Source:HGNC Symbol;Acc:HGNC:11006]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-286	4	ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]		
RNA-SEQ-HUHALLTP-287	6	ENSG00000242615		ribosomal protein L17 (RPL17) pseudogene		
RNA-SEQ-HUHALLTP-287	6	ENSG00000144857	BOC	BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]		
RNA-SEQ-HUHALLTP-287	6	ENSG00000164142	FAM160A1	family with sequence similarity 160 member A1 [Source:HGNC Symbol;Acc:HGNC:34237]		
RNA-SEQ-HUHALLTP-287	6	ENSG00000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]		
RNA-SEQ-HUHALLTP-287	6	ENSG00000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:4525]		
RNA-SEQ-HUHALLTP-287	6	ENSG00000070759	TESK2	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]		
RNA-SEQ-HUHALLTP-288	5	ENSG00000267519		novel transcript		
RNA-SEQ-HUHALLTP-288	5	ENSG00000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]		
RNA-SEQ-HUHALLTP-288	5	ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]		
RNA-SEQ-HUHALLTP-288	5	ENSG00000110218	PANX1	pannexin 1 [Source:HGNC Symbol;Acc:HGNC:8599]		
RNA-SEQ-HUHALLTP-288	5	ENSG00000148154	UGCG	UDP-glucose ceramide glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:12524]		
RNA-SEQ-HUHALLTP-289	4	ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]		
RNA-SEQ-HUHALLTP-289	4	ENSG00000242769	RN7SL432P	RNA, 7SL, cytoplasmic 432, pseudogene [Source:HGNC Symbol;Acc:HGNC:46448]		
RNA-SEQ-HUHALLTP-289	4	ENSG00000199827	RNU6-1290P	RNA, U6 small nuclear 1290, pseudogene [Source:HGNC Symbol;Acc:HGNC:48253]		
RNA-SEQ-HUHALLTP-289	4	ENSG00000234272	RPL30P2	ribosomal protein L30 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:35642]		
RNA-SEQ-HUHALLTP-290	6	ENSG00000118507	AKAP7	A-kinase anchoring protein 7 [Source:HGNC Symbol;Acc:HGNC:377]		
RNA-SEQ-HUHALLTP-290	6	ENSG00000164002	EXO5	exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:26115]		
RNA-SEQ-HUHALLTP-290	6	ENSG00000067992	PDK3	pyruvate dehydrogenase kinase 3 [Source:HGNC Symbol;Acc:HGNC:8811]		
RNA-SEQ-HUHALLTP-290	6	ENSG00000241015	TPM3P9	tropomyosin 3 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:44142]		
RNA-SEQ-HUHALLTP-290	6	ENSG00000137364	TPMT	thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:HGNC:12014]		
RNA-SEQ-HUHALLTP-290	6	ENSG00000144792	ZNF660	zinc finger protein 660 [Source:HGNC Symbol;Acc:HGNC:26720]		
RNA-SEQ-HUHALLTP-291	6	ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]		
RNA-SEQ-HUHALLTP-291	6	ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]		
RNA-SEQ-HUHALLTP-291	6	ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]		
RNA-SEQ-HUHALLTP-291	6	ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]		
RNA-SEQ-HUHALLTP-291	6	ENSG00000163536	SERPINI1	serpin family I member 1 [Source:HGNC Symbol;Acc:HGNC:8943]		
RNA-SEQ-HUHALLTP-291	6	ENSG00000110013	SIAE	sialic acid acetyl esterase [Source:HGNC Symbol;Acc:HGNC:18187]		
RNA-SEQ-HUHALLTP-292	6	ENSG00000200855				
RNA-SEQ-HUHALLTP-292	6	ENSG00000202306				
RNA-SEQ-HUHALLTP-292	6	ENSG00000138101	DTNB	dystrobrevin beta [Source:HGNC Symbol;Acc:HGNC:3058]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RNA-SEQ-HUHALLTP-292	6	ENSG00000276588	RN7SL322P	RNA, 7SL, cytoplasmic 322, pseudogene [Source:HGNC Symbol;Acc:HGNC:46338]		
RNA-SEQ-HUHALLTP-292	6	ENSG00000224094	RPS24P8	ribosomal protein S24 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:37016]		
RNA-SEQ-HUHALLTP-292	6	ENSG00000226855	RPSAP17	ribosomal protein SA pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:35707]		
RNA-SEQ-HUHALLTP-293	3	ENSG00000079112	CDH17	cadherin 17 [Source:HGNC Symbol;Acc:HGNC:1756]		
RNA-SEQ-HUHALLTP-293	3	ENSG00000166997	CNPY4	canopy FGF signaling regulator 4 [Source:HGNC Symbol;Acc:HGNC:28631]		
RNA-SEQ-HUHALLTP-293	3	ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]		
RNA-SEQ-HUHALLTP-294	3	ENSG00000164946	FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:HGNC:23399]		
RNA-SEQ-HUHALLTP-294	3	ENSG00000183840	GPR39	G protein-coupled receptor 39 [Source:HGNC Symbol;Acc:HGNC:4496]		
RNA-SEQ-HUHALLTP-294	3	ENSG00000104044	OCA2	OCA2 melanosomal transmembrane protein [Source:HGNC Symbol;Acc:HGNC:8101]		
RNA-SEQ-HUHALLTP-295	8	ENSG00000206905				
RNA-SEQ-HUHALLTP-295	8	ENSG00000225531		MMRP19 pseudogene		
RNA-SEQ-HUHALLTP-295	8	ENSG00000179111	HES7	hes family bHLH transcription factor 7 [Source:HGNC Symbol;Acc:HGNC:15977]		
RNA-SEQ-HUHALLTP-295	8	ENSG00000248473	LINC01962	long intergenic non-protein coding RNA 1962 [Source:HGNC Symbol;Acc:HGNC:52787]		
RNA-SEQ-HUHALLTP-295	8	ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic 128, pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]		
RNA-SEQ-HUHALLTP-295	8	ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]		
RNA-SEQ-HUHALLTP-295	8	ENSG00000241420	RN7SL505P	RNA, 7SL, cytoplasmic 505, pseudogene [Source:HGNC Symbol;Acc:HGNC:46521]		
RNA-SEQ-HUHALLTP-295	8	ENSG00000199562	RNU6-37P	RNA, U6 small nuclear 37, pseudogene [Source:HGNC Symbol;Acc:HGNC:34281]		
RNA-SEQ-HUHALLTP-296	4	ENSG00000214019		RNA-binding region (RNP1, RRM) containing 2 (RNPC2) pseudogene		
RNA-SEQ-HUHALLTP-296	4	ENSG00000252521	RNU5D-2P	RNA, U5D small nuclear 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:42534]		
RNA-SEQ-HUHALLTP-296	4	ENSG00000137501	SYTL2	synaptotagmin like 2 [Source:HGNC Symbol;Acc:HGNC:15585]		
RNA-SEQ-HUHALLTP-296	4	ENSG00000121775	TMEM39B	transmembrane protein 39B [Source:HGNC Symbol;Acc:HGNC:25510]		
RNA-SEQ-HUHALLTP-297	6	ENSG00000090581	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:HGNC Symbol;Acc:HGNC:23026]		
RNA-SEQ-HUHALLTP-297	6	ENSG00000161091	MFSD12	major facilitator superfamily domain containing 12 [Source:HGNC Symbol;Acc:HGNC:28299]		
RNA-SEQ-HUHALLTP-297	6	ENSG00000081087	OSTM1	osteoclastogenesis associated transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:21652]		
RNA-SEQ-HUHALLTP-297	6	ENSG00000238554	RNU1-88P	RNA, U1 small nuclear 88, pseudogene [Source:HGNC Symbol;Acc:HGNC:48430]		
RNA-SEQ-HUHALLTP-297	6	ENSG00000135919	SERPINE2	serpin family E member 2 [Source:HGNC Symbol;Acc:HGNC:8951]		
RNA-SEQ-HUHALLTP-297	6	ENSG00000174365	SNHG11	small nucleolar RNA host gene 11 [Source:HGNC Symbol;Acc:HGNC:25046]		
RNA-SEQ-HUHALLTP-298	3	ENSG00000261227		novel transcript		
RNA-SEQ-HUHALLTP-298	3	ENSG00000268916	CSAG3	CSAG family member 3 [Source:HGNC Symbol;Acc:HGNC:26237]		
RNA-SEQ-HUHALLTP-298	3	ENSG00000104312	RIPK2	receptor interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:10020]		
RNA-SEQ-HUHALLTP-299	3	ENSG00000217648		pseudogene similar to presenilin associated, rhomboid-like PARDL		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RNA-SEQ-HUHALLTP-299	3	ENSG00000230021				
RNA-SEQ-HUHALLTP-299	3	ENSG00000222231	RNU2-54P	RNA, U2 small nuclear 54, pseudogene [Source:HGNC Symbol;Acc:HGNC:48547]		
RNA-SEQ-HUHALLTP-300	7	ENSG00000266651		novel transcript		
RNA-SEQ-HUHALLTP-300	7	ENSG00000273297				
RNA-SEQ-HUHALLTP-300	7	ENSG00000163586	FABP1	fatty acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:3555]		
RNA-SEQ-HUHALLTP-300	7	ENSG00000234155	LINC02535	long intergenic non-protein coding RNA 2535 [Source:HGNC Symbol;Acc:HGNC:53569]		
RNA-SEQ-HUHALLTP-300	7	ENSG00000165471	MBL2	mannose binding lectin 2 [Source:HGNC Symbol;Acc:HGNC:6922]		
RNA-SEQ-HUHALLTP-300	7	ENSG00000108187	PBLD	phenazine biosynthesis like protein domain containing [Source:HGNC Symbol;Acc:HGNC:23301]		
RNA-SEQ-HUHALLTP-300	7	ENSG00000064225	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]		
RNA-SEQ-HUHALLTP-301	3	ENSG00000146233	CYP39A1	cytochrome P450 family 39 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:17449]		
RNA-SEQ-HUHALLTP-301	3	ENSG00000154556	SORBS2	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24098]		
RNA-SEQ-HUHALLTP-301	3	ENSG00000143643	TTC13	tetratricopeptide repeat domain 13 [Source:HGNC Symbol;Acc:HGNC:26204]		
RNA-SEQ-HUHALLTP-302	4	ENSG00000154265	ABC A5	ATP binding cassette subfamily A member 5 [Source:HGNC Symbol;Acc:HGNC:35]		
RNA-SEQ-HUHALLTP-302	4	ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]		
RNA-SEQ-HUHALLTP-302	4	ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]		
RNA-SEQ-HUHALLTP-302	4	ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]		
RNA-SEQ-HUHALLTP-303	4	ENSG00000231764	DLX6-AS1	DLX6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:37151]		
RNA-SEQ-HUHALLTP-303	4	ENSG00000133739	LRRCC1	leucine rich repeat and coiled-coil centrosomal protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]		
RNA-SEQ-HUHALLTP-303	4	ENSG00000239224	RN7SL546P	RNA, 7SL, cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]		
RNA-SEQ-HUHALLTP-303	4	ENSG00000142065	ZFP14	ZFP14 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:29312]		
RNA-SEQ-HUHALLTP-304	2	ENSG00000222451	RN7SKP143	RNA, 7SK small nuclear pseudogene 143 [Source:HGNC Symbol;Acc:HGNC:45867]		
RNA-SEQ-HUHALLTP-304	2	ENSG00000207003	RNU6-611P	RNA, U6 small nuclear 611, pseudogene [Source:HGNC Symbol;Acc:HGNC:47574]		
RNA-SEQ-HUHALLTP-305	4	ENSG00000278701				
RNA-SEQ-HUHALLTP-305	4	ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]		
RNA-SEQ-HUHALLTP-305	4	ENSG00000228462	RPS19P7	ribosomal protein S19 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:35550]		
RNA-SEQ-HUHALLTP-305	4	ENSG00000120693	SMAD9	SMAD family member 9 [Source:HGNC Symbol;Acc:HGNC:6774]		
RNA-SEQ-HUHALLTP-306	4	ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]		
RNA-SEQ-HUHALLTP-306	4	ENSG00000199731	RNU6-1079P	RNA, U6 small nuclear 1079, pseudogene [Source:HGNC Symbol;Acc:HGNC:48042]		
RNA-SEQ-HUHALLTP-306	4	ENSG00000200153	RNU6-23P	RNA, U6 small nuclear 23, pseudogene [Source:HGNC Symbol;Acc:HGNC:34267]		
RNA-SEQ-HUHALLTP-306	4	ENSG00000270123	VTRNA2-1	vault RNA 2-1 [Source:HGNC Symbol;Acc:HGNC:37054]		
RNA-SEQ-HUHALLTP-307	7	ENSG00000255508		novel transcript		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log</i> ₂	<i>Log</i> ₂
					FC	FC
CYT	ER					
RNA-SEQ-HUHALLTP-307	7	ENSG00000130429	ARPC1B	actin related protein 2/3 complex subunit 1B [Source:HGNC Symbol;Acc:HGNC:704]		
RNA-SEQ-HUHALLTP-307	7	ENSG00000148219	ASTN2	astrotactin 2 [Source:HGNC Symbol;Acc:HGNC:17021]		
RNA-SEQ-HUHALLTP-307	7	ENSG00000187017	ESPN	espin [Source:HGNC Symbol;Acc:HGNC:13281]		
RNA-SEQ-HUHALLTP-307	7	ENSG00000134240	HMGCS2	3-hydroxy-3-methylglutaryl-CoA synthase 2 [Source:HGNC Symbol;Acc:HGNC:5008]		
RNA-SEQ-HUHALLTP-307	7	ENSG00000102312	PORCN	porcupine O-acyltransferase [Source:HGNC Symbol;Acc:HGNC:17652]		
RNA-SEQ-HUHALLTP-307	7	ENSG00000185361	TNFAIP8L1	TNF alpha induced protein 8 like 1 [Source:HGNC Symbol;Acc:HGNC:28279]		
RNA-SEQ-HUHALLTP-308	3	ENSG00000104880	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]		
RNA-SEQ-HUHALLTP-308	3	ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]		
RNA-SEQ-HUHALLTP-308	3	ENSG00000207005	RNU1-2	RNA, U1 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10123]		

Table 17: Co-expressed gene clusters (RNA-Seq, Huh7, All post-treatment time points)

Category Type	Categories	Distinct	Median
		#Genes In Sets	#Genes Per Set
MSigDB Biological Processes	4653	15411	34
MSigDB Cellular Components	584	12116	43
MSigDB Immunological Signatures	4872	19193	199
MSigDB KEGG Pathways	186	5221	52
MSigDB Molecular Functions	929	14393	30
MSigDB Reactome Pathways	674	5790	27

Table 18: Overview of gene sets used for the enrichment analysis (RNA-Seq). Genes within gene sets are filtered to reflect only those that exist in filtered Ensembl version 95 annotations obtained using biomaRt.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO RESPONSE TO ENDOPLASMIC RETICULUM STRESS	233	40 (17.2)	40 (17.2)	0 (0)	0.099	<0.0001	0.0046
GO RESPONSE TO TOPOLOGICALLY INCORRECT PROTEIN	163	31 (19)	31 (19)	0 (0)	0.090	<0.0001	0.0046
GO CELLULAR RESPONSE TO TOPOLOGICALLY INCORRECT PR...	122	26 (21.3)	26 (21.3)	0 (0)	0.084	<0.0001	0.0046
GO PROTEIN FOLDING	220	23 (10.5)	23 (10.5)	0 (0)	0.056	<0.0001	0.0046
GO ER NUCLEUS SIGNALING PATHWAY	34	13 (38.2)	13 (38.2)	0 (0)	0.056	<0.0001	0.0046
GO CELLULAR RESPONSE TO BIOTIC STIMULUS	162	15 (9.3)	15 (9.3)	0 (0)	0.042	<0.0001	0.0046
GO CELL REDOX HOMEOSTASIS	67	11 (16.4)	11 (16.4)	0 (0)	0.041	<0.0001	0.0046
GO RESPONSE TO INORGANIC SUBSTANCE	481	27 (5.6)	27 (5.6)	0 (0)	0.041	<0.0001	0.0046
GO IRE1 MEDIATED UNFOLDED PROTEIN RESPONSE	56	10 (17.9)	10 (17.9)	0 (0)	0.039	<0.0001	0.0046
GO NEGATIVE REGULATION OF CYTOKINE PRODUCTION	209	15 (7.2)	15 (7.2)	0 (0)	0.037	<0.0001	0.0046
GO REGULATION OF CYTOKINE PRODUCTION	560	27 (4.8)	27 (4.8)	0 (0)	0.036	<0.0001	0.0046
GO RESPONSE TO METAL ION	333	19 (5.7)	19 (5.7)	0 (0)	0.036	<0.0001	0.0046
GO PLATELET DEGRANULATION	107	11 (10.3)	11 (10.3)	0 (0)	0.036	<0.0001	0.0046
GO RESPONSE TO BIOTIC STIMULUS	862	35 (4.1)	35 (4.1)	0 (0)	0.034	<0.0001	0.0046
GO DEFENSE RESPONSE TO VIRUS	164	12 (7.3)	12 (7.3)	0 (0)	0.033	<0.0001	0.0046
GO RESPONSE TO MOLECULE OF BACTERIAL ORIGIN	320	17 (5.3)	17 (5.3)	0 (0)	0.033	<0.0001	0.0046
GO CELLULAR RESPONSE TO STRESS	1560	56 (3.6)	56 (3.6)	0 (0)	0.033	<0.0001	0.0046
GO ERAD PATHWAY	74	9 (12.2)	9 (12.2)	0 (0)	0.032	<0.0001	0.0046
GO PERK MEDIATED UNFOLDED PROTEIN RESPONSE	12	7 (58.3)	7 (58.3)	0 (0)	0.032	<0.0001	0.0046
GO EXTRACELLULAR STRUCTURE ORGANIZATION	303	16 (5.3)	16 (5.3)	0 (0)	0.032	<0.0001	0.0046
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	63 (3.4)	63 (3.4)	0 (0)	0.032	<0.0001	0.0046
GO REGULATION OF PROTEIN MATURATION	82	9 (11)	9 (11)	0 (0)	0.032	<0.0001	0.0046
GO RESPONSE TO VIRUS	247	14 (5.7)	14 (5.7)	0 (0)	0.031	<0.0001	0.0046
GO CELLULAR RESPONSE TO STARVATION	117	10 (8.5)	10 (8.5)	0 (0)	0.031	<0.0001	0.0046
GO PROTEIN EXIT FROM ENDOPLASMIC RETICULUM	20	7 (35)	7 (35)	0 (0)	0.031	<0.0001	0.0046
GO RESPONSE TO STARVATION	154	11 (7.1)	11 (7.1)	0 (0)	0.031	<0.0001	0.0046
GO RESPONSE TO ALCOHOL	364	17 (4.7)	17 (4.7)	0 (0)	0.030	<0.0001	0.0046
GO REGULATION OF MULTI ORGANISM PROCESS	470	20 (4.3)	20 (4.3)	0 (0)	0.030	<0.0001	0.0046
GO ER ASSOCIATED UBIQUITIN DEPENDENT PROTEIN CATAB...	61	8 (13.1)	8 (13.1)	0 (0)	0.030	<0.0001	0.0046
GO REGULATION OF CELL ADHESION	624	24 (3.8)	24 (3.8)	0 (0)	0.029	<0.0001	0.0046
GO RESPONSE TO OXYGEN LEVELS	311	15 (4.8)	15 (4.8)	0 (0)	0.029	<0.0001	0.0046
GO REGULATION OF IMMUNE EFFECTOR PROCESS	424	18 (4.2)	18 (4.2)	0 (0)	0.029	<0.0001	0.0046
GO REGULATION OF BINDING	284	14 (4.9)	14 (4.9)	0 (0)	0.029	<0.0001	0.0046
GO RESPONSE TO OXYGEN CONTAINING COMPOUND	1383	45 (3.3)	45 (3.3)	0 (0)	0.029	<0.0001	0.0046
GO NEGATIVE REGULATION OF PROTEOLYSIS	325	15 (4.6)	15 (4.6)	0 (0)	0.029	<0.0001	0.0046
GO RESPONSE TO BACTERIUM	504	20 (4)	20 (4)	0 (0)	0.029	<0.0001	0.0046
GO POSITIVE REGULATION OF IMMUNE SYSTEM PROCESS	833	29 (3.5)	29 (3.5)	0 (0)	0.029	<0.0001	0.0046
GO NEGATIVE REGULATION OF CELL DEATH	874	30 (3.4)	30 (3.4)	0 (0)	0.028	<0.0001	0.0046
GO NEGATIVE REGULATION OF MULTICELLULAR ORGANISMAL...	981	33 (3.4)	33 (3.4)	0 (0)	0.028	<0.0001	0.0046
GO CELLULAR RESPONSE TO EXTRACELLULAR STIMULUS	188	11 (5.9)	11 (5.9)	0 (0)	0.028	<0.0001	0.0046
GO CELLULAR RESPONSE TO EXTERNAL STIMULUS	265	13 (4.9)	13 (4.9)	0 (0)	0.028	<0.0001	0.0046
GO RESPONSE TO LIPID	888	30 (3.4)	30 (3.4)	0 (0)	0.028	<0.0001	0.0046
GO CELLULAR HOMEOSTASIS	675	24 (3.6)	24 (3.6)	0 (0)	0.028	<0.0001	0.0046
GO CHAPERONE MEDIATED PROTEIN FOLDING	47	7 (14.9)	7 (14.9)	0 (0)	0.028	<0.0001	0.0046
GO RESPONSE TO NITROGEN COMPOUND	862	29 (3.4)	29 (3.4)	0 (0)	0.028	<0.0001	0.0046
GO POSITIVE REGULATION OF LOCOMOTION	420	17 (4)	17 (4)	0 (0)	0.028	<0.0001	0.0046
GO PROTEIN FOLDING IN ENDOPLASMIC RETICULUM	11	6 (54.5)	6 (54.5)	0 (0)	0.028	<0.0001	0.0046

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO REGULATION OF ERK1 AND ERK2 CASCADE	235	12 (5.1)	12 (5.1)	0 (0)	0.028	<0.0001	0.0046
GO ISOPRENOID METABOLIC PROCESS	126	9 (7.1)	9 (7.1)	0 (0)	0.027	<0.0001	0.0046
GO REGULATION OF PEPTIDASE ACTIVITY	389	16 (4.1)	16 (4.1)	0 (0)	0.027	<0.0001	0.0046

Table 19: Enriched MSigDB Biological Processes (RNA-Seq, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO ENDOPLASMIC RETICULUM LUMEN	201	22 (10.9)	22 (10.9)	0 (0)	0.056	<0.0001	0.0024
GO ENDOPLASMIC RETICULUM	1624	88 (5.4)	88 (5.4)	0 (0)	0.050	<0.0001	0.0024
GO PIGMENT GRANULE	102	15 (14.7)	15 (14.7)	0 (0)	0.050	<0.0001	0.0024
GO ENDOPLASMIC RETICULUM PART	1157	65 (5.6)	65 (5.6)	0 (0)	0.050	<0.0001	0.0024
GO ENDOPLASMIC RETICULUM GOLGI INTERMEDIATE COMPAR...	105	15 (14.3)	15 (14.3)	0 (0)	0.050	<0.0001	0.0024
GO NUCLEAR OUTER MEMBRANE ENDOPLASMIC RETICULUM ME...	1000	54 (5.4)	54 (5.4)	0 (0)	0.047	<0.0001	0.0024
GO ROUGH ENDOPLASMIC RETICULUM	71	11 (15.5)	11 (15.5)	0 (0)	0.040	<0.0001	0.0024
GO VACUOLAR LUMEN	115	12 (10.4)	12 (10.4)	0 (0)	0.038	<0.0001	0.0024
GO ENDOPLASMIC RETICULUM CHAPERONE COMPLEX	11	8 (72.7)	8 (72.7)	0 (0)	0.037	<0.0001	0.0024
GO CELL SURFACE	730	33 (4.5)	33 (4.5)	0 (0)	0.036	<0.0001	0.0024
GO EXTRACELLULAR SPACE	1342	51 (3.8)	51 (3.8)	0 (0)	0.034	<0.0001	0.0024
GO SMOOTH ENDOPLASMIC RETICULUM	33	8 (24.2)	8 (24.2)	0 (0)	0.034	<0.0001	0.0024
GO INTRACELLULAR VESICLE	1256	47 (3.7)	47 (3.7)	0 (0)	0.033	<0.0001	0.0024
GO INTRINSIC COMPONENT OF ENDOPLASMIC RETICULUM ME...	133	11 (8.3)	11 (8.3)	0 (0)	0.033	<0.0001	0.0024
GO VESICLE LUMEN	107	10 (9.3)	10 (9.3)	0 (0)	0.032	<0.0001	0.0024
GO CYTOPLASMIC VESICLE PART	599	25 (4.2)	25 (4.2)	0 (0)	0.032	<0.0001	0.0024
GO LYtic VACUOLE	523	21 (4)	21 (4)	0 (0)	0.029	<0.0001	0.0024
GO LYSOSOMAL LUMEN	88	8 (9.1)	8 (9.1)	0 (0)	0.027	<0.0001	0.0024
GO BLOOD MICROPARTICLE	116	8 (6.9)	8 (6.9)	0 (0)	0.025	<0.0001	0.0024
GO PROTEIN LIPID COMPLEX	40	6 (15)	6 (15)	0 (0)	0.024	<0.0001	0.0024
GO ENDOSOME LUMEN	26	5 (19.2)	5 (19.2)	0 (0)	0.021	<0.0001	0.0024
GO ENDOCYTIC VESICLE LUMEN	17	4 (23.5)	4 (23.5)	0 (0)	0.018	<0.0001	0.0024
GO TRIGLYCERIDE RICH LIPOPROTEIN PARTICLE	20	4 (20)	4 (20)	0 (0)	0.018	<0.0001	0.0024
GO VERY LOW DENSITY LIPOPROTEIN PARTICLE	20	4 (20)	4 (20)	0 (0)	0.018	<0.0001	0.0024
GO MEMBRANE MICRODOMAIN	288	14 (4.9)	14 (4.9)	0 (0)	0.029	0.0002	0.0045
GO PLATELET ALPHA GRANULE	76	8 (10.5)	8 (10.5)	0 (0)	0.029	0.0002	0.0045
GO VACUOLAR PART	689	25 (3.6)	25 (3.6)	0 (0)	0.029	0.0003	0.0065
GO VACUOLE	1174	35 (3)	35 (3)	0 (0)	0.026	0.0004	0.0083
GO GOLGI APPARATUS	1443	41 (2.8)	41 (2.8)	0 (0)	0.025	0.0005	0.0094
GO PLATELET ALPHA GRANULE LUMEN	56	6 (10.7)	6 (10.7)	0 (0)	0.023	0.0005	0.0094
GO ENDOPLASMIC RETICULUM GOLGI INTERMEDIATE COMPAR...	63	6 (9.5)	6 (9.5)	0 (0)	0.022	0.0005	0.0094
GO DERLIN 1 RETROTRANSLOCATION COMPLEX	11	3 (27.3)	3 (27.3)	0 (0)	0.014	0.0007	0.0128
GO ER TO GOLGI TRANSPORT VESICLE	68	6 (8.8)	6 (8.8)	0 (0)	0.022	0.0009	0.0155
GO LOW DENSITY LIPOPROTEIN PARTICLE	14	3 (21.4)	3 (21.4)	0 (0)	0.013	0.0009	0.0155
GO HOST	12	3 (25)	3 (25)	0 (0)	0.013	0.001	0.0167
GO LUMENAL SIDE OF MEMBRANE	30	4 (13.3)	4 (13.3)	0 (0)	0.017	0.0011	0.0178
GO SECRETORY GRANULE	354	13 (3.7)	13 (3.7)	0 (0)	0.024	0.0014	0.0221

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO SECRETORY GRANULE LUMEN	86	6 (7)	6 (7)	0 (0)	0.021	0.0015	0.0225
GO ER TO GOLGI TRANSPORT VESICLE MEMBRANE	52	5 (9.6)	5 (9.6)	0 (0)	0.019	0.0015	0.0225
GO INTRINSIC COMPONENT OF ORGANELLE MEMBRANE	278	12 (4.3)	12 (4.3)	0 (0)	0.025	0.0016	0.0228
GO EXTERNAL SIDE OF PLASMA MEMBRANE	215	10 (4.7)	10 (4.7)	0 (0)	0.024	0.0016	0.0228
GO HIGH DENSITY LIPOPROTEIN PARTICLE	26	3 (11.5)	3 (11.5)	0 (0)	0.013	0.0021	0.0292
GO CELL SUBSTRATE JUNCTION	398	15 (3.8)	15 (3.8)	0 (0)	0.025	0.0024	0.0319
GO VACUOLAR MEMBRANE	582	19 (3.3)	19 (3.3)	0 (0)	0.025	0.0024	0.0319
GO PERINUCLEAR REGION OF CYTOPLASM	643	20 (3.1)	20 (3.1)	0 (0)	0.024	0.0031	0.0402
GO ANCHORING JUNCTION	489	17 (3.5)	17 (3.5)	0 (0)	0.025	0.0036	0.0457
GO ROUGH ENDOPLASMIC RETICULUM MEMBRANE	21	3 (14.3)	3 (14.3)	0 (0)	0.013	0.0039	0.0485
GO EXTRACELLULAR MATRIX	424	14 (3.3)	14 (3.3)	0 (0)	0.022	0.004	0.0487
GO LYtic VACUOLE MEMBRANE	273	11 (4)	11 (4)	0 (0)	0.023	0.0042	0.0501
GO SIDE OF MEMBRANE	405	14 (3.5)	14 (3.5)	0 (0)	0.023	0.0044	0.0514

Table 20: Enriched MSigDB Cellular Components (RNA-Seq, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	24 (12.1)	24 (12.1)	0 (0)	0.062	<0.0001	0.0033
GSE40273 EOS KO VS WT TREG UP	198	22 (11.1)	22 (11.1)	0 (0)	0.057	<0.0001	0.0033
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	19 (10.1)	19 (10.1)	0 (0)	0.050	<0.0001	0.0033
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	17 (9)	17 (9)	0 (0)	0.044	<0.0001	0.0033
GSE25085 FETAL BM VS ADULT BM SP4 THYMIC IMPLANT D...	200	17 (8.5)	17 (8.5)	0 (0)	0.043	<0.0001	0.0033
GSE29614 DAY3 VS DAY7 TIV FLU VACCINE PBMC DN	179	16 (8.9)	16 (8.9)	0 (0)	0.043	<0.0001	0.0033
GSE29614 CTRL VS DAY7 TIV FLU VACCINE PBMC DN	182	16 (8.8)	16 (8.8)	0 (0)	0.042	<0.0001	0.0033
GSE29164 CD8 TCELL VS CD8 TCELL AND IL12 TREATED M...	187	16 (8.6)	16 (8.6)	0 (0)	0.042	<0.0001	0.0033
GSE9988 LOW LPS VS CTRL TREATED MONOCYTE UP	189	16 (8.5)	16 (8.5)	0 (0)	0.042	<0.0001	0.0033
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	16 (8.4)	16 (8.4)	0 (0)	0.041	<0.0001	0.0033
GSE29618 BCELL VS PDC DN	196	16 (8.2)	16 (8.2)	0 (0)	0.041	<0.0001	0.0033
GSE40274 CTRL VS FOXP3 AND HELIOS TRANSDUCED ACTIV...	197	16 (8.1)	16 (8.1)	0 (0)	0.041	<0.0001	0.0033
GSE9988 ANTI TREM1 AND LPS VS VEHICLE TREATED MONO...	188	15 (8)	15 (8)	0 (0)	0.039	<0.0001	0.0033
GSE9988 LOW LPS VS VEHICLE TREATED MONOCYTE UP	189	15 (7.9)	15 (7.9)	0 (0)	0.039	<0.0001	0.0033
GSE9006 TYPE 1 DIABETES AT DX VS 1MONTH POST DX PB...	198	15 (7.6)	15 (7.6)	0 (0)	0.038	<0.0001	0.0033
GSE339 CD4POS VS CD8POS DC DN	199	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE10325 BCELL VS LUPUS BCELL DN	200	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE17721 LPS VS POLYIC 1H BMDC UP	200	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE19401 NAIVE VS IMMUNIZED MOUSE PLN FOLLICULAR D...	200	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE22140 HEALTHY VS ARTHRITIC GERMFREE MOUSE CD4 T...	200	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE43260 BTLA POS VS NEG INTRATUMORAL CD8 TCELL UP	200	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE9006 TYPE 1 DIABETES AT DX VS 4MONTH POST DX PB...	200	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE29618 MONOCYTE VS MDC DAY7 FLU VACCINE UP	201	15 (7.5)	15 (7.5)	0 (0)	0.038	<0.0001	0.0033
GSE29617 CTRL VS DAY7 TIV FLU VACCINE PBMC 2008 DN	186	14 (7.5)	14 (7.5)	0 (0)	0.036	<0.0001	0.0033
GSE22886 IGG IGA MEMORY BCELL VS BM PLASMA CELL DN	189	14 (7.4)	14 (7.4)	0 (0)	0.036	<0.0001	0.0033
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	14 (7.3)	14 (7.3)	0 (0)	0.036	<0.0001	0.0033
GSE22886 NAIVE BCELL VS BM PLASMA CELL DN	194	14 (7.2)	14 (7.2)	0 (0)	0.036	<0.0001	0.0033

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	14 (7.1)	14 (7.1)	0 (0)	0.035	<0.0001	0.0033
GSE19401 UNSTIM VS PAM2CSK4 STIM FOLLICULAR DC DN	199	14 (7)	14 (7)	0 (0)	0.035	<0.0001	0.0033
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	14 (7)	14 (7)	0 (0)	0.035	<0.0001	0.0033
GSE360 L DONOVANI VS M TUBERCULOSIS MAC UP	200	14 (7)	14 (7)	0 (0)	0.035	<0.0001	0.0033
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	14 (7)	14 (7)	0 (0)	0.035	<0.0001	0.0033
GSE22886 CTRL VS LPS 24H DC DN	201	14 (7)	14 (7)	0 (0)	0.035	<0.0001	0.0033
GSE36891 POLYIC TLR3 VS PAM TLR2 STIM PERITONEAL M...	146	12 (8.2)	12 (8.2)	0 (0)	0.035	<0.0001	0.0033
GSE37301 HEMATOPOIETIC STEM CELL VS RAG2 KO NK CEL...	180	13 (7.2)	13 (7.2)	0 (0)	0.034	<0.0001	0.0033
GSE2706 R848 VS LPS 2H STIM DC DN	182	13 (7.1)	13 (7.1)	0 (0)	0.034	<0.0001	0.0033
GSE12845 IGD POS VS NEG BLOOD BCELL DN	184	13 (7.1)	13 (7.1)	0 (0)	0.034	<0.0001	0.0033
GSE12366 GC BCELL VS PLASMA CELL DN	186	13 (7)	13 (7)	0 (0)	0.034	<0.0001	0.0033
GSE9988 LPS VS CTRL TREATED MONOCYTE UP	189	13 (6.9)	13 (6.9)	0 (0)	0.033	<0.0001	0.0033
GSE13411 PLASMA CELL VS MEMORY BCELL UP	190	13 (6.8)	13 (6.8)	0 (0)	0.033	<0.0001	0.0033
GSE2706 UNSTIM VS 2H LPS DC DN	192	13 (6.8)	13 (6.8)	0 (0)	0.033	<0.0001	0.0033
GSE2706 UNSTIM VS 8H LPS AND R848 DC DN	194	13 (6.7)	13 (6.7)	0 (0)	0.033	<0.0001	0.0033
GSE42021 TREG PLN VS CD24LO TREG THYMUS DN	196	13 (6.6)	13 (6.6)	0 (0)	0.033	<0.0001	0.0033
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	13 (6.6)	13 (6.6)	0 (0)	0.033	<0.0001	0.0033
GSE42021 CD24HI VS CD24INT TREG THYMUS DN	198	13 (6.6)	13 (6.6)	0 (0)	0.033	<0.0001	0.0033
GSE41867 MEMORY VS EXHAUSTED CD8 TCELL DAY30 LCMV ...	199	13 (6.5)	13 (6.5)	0 (0)	0.033	<0.0001	0.0033
GSE42021 CD24HI TREG VS CD24HI TCONV THYMUS DN	199	13 (6.5)	13 (6.5)	0 (0)	0.033	<0.0001	0.0033
GSE24634 TEFF VS TCONV DAY10 IN CULTURE DN	200	13 (6.5)	13 (6.5)	0 (0)	0.033	<0.0001	0.0033
GSE7348 UNSTIM VS LPS STIM MACROPHAGE DN	168	12 (7.1)	12 (7.1)	0 (0)	0.033	<0.0001	0.0033
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	13 (6.5)	13 (6.5)	0 (0)	0.032	<0.0001	0.0033

Table 21: Enriched MSigDB Immunological Signatures (RNA-Seq, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG LYSOSOME	121	12 (9.9)	12 (9.9)	0 (0)	0.037	<0.0001	0.0186
KEGG ANTIGEN PROCESSING AND PRESENTATION	81	7 (8.6)	7 (8.6)	0 (0)	0.024	0.0002	0.0186

Table 22: Enriched MSigDB KEGG Pathways (RNA-Seq, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO GLYCOPROTEIN BINDING	101	11 (10.9)	11 (10.9)	0 (0)	0.036	<0.0001	0.0093
GO INTEGRIN BINDING	105	10 (9.5)	10 (9.5)	0 (0)	0.033	<0.0001	0.0093
GO INTRAMOLECULAR OXIDOREDUCTASE ACTIVITY TRANSPOS...	22	7 (31.8)	7 (31.8)	0 (0)	0.031	<0.0001	0.0093
GO ISOMERASE ACTIVITY	159	11 (6.9)	11 (6.9)	0 (0)	0.030	<0.0001	0.0093
GO CALCIUM ION BINDING	694	24 (3.5)	24 (3.5)	0 (0)	0.027	<0.0001	0.0093
GO INTRAMOLECULAR OXIDOREDUCTASE ACTIVITY	53	7 (13.2)	7 (13.2)	0 (0)	0.027	<0.0001	0.0093

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO UNFOLDED PROTEIN BINDING	94	8 (8.5)	8 (8.5)	0 (0)	0.027	<0.0001	0.0093
GO RECEPTOR BINDING	1454	38 (2.6)	38 (2.6)	0 (0)	0.023	<0.0001	0.0093
GO MISFOLDED PROTEIN BINDING	12	5 (41.7)	5 (41.7)	0 (0)	0.023	<0.0001	0.0093
GO FIBRONECTIN BINDING	28	5 (17.9)	5 (17.9)	0 (0)	0.021	<0.0001	0.0093
GO CELL ADHESION MOLECULE BINDING	186	12 (6.5)	12 (6.5)	0 (0)	0.031	0.0002	0.0155
GO PROTEASE BINDING	104	8 (7.7)	8 (7.7)	0 (0)	0.026	0.0002	0.0155
GO PEPTIDASE REGULATOR ACTIVITY	210	9 (4.3)	9 (4.3)	0 (0)	0.022	0.0003	0.0199
GO CHEMOKINE ACTIVITY	47	4 (8.5)	4 (8.5)	0 (0)	0.016	0.0003	0.0199
GO PROTEOGLYCAN BINDING	30	4 (13.3)	4 (13.3)	0 (0)	0.017	0.0005	0.031
GO HEPARIN BINDING	157	8 (5.1)	8 (5.1)	0 (0)	0.022	0.0006	0.031
GO CHAPERONE BINDING	82	6 (7.3)	6 (7.3)	0 (0)	0.021	0.0006	0.031
GO CXCR CHEMOKINE RECEPTOR BINDING	16	3 (18.8)	3 (18.8)	0 (0)	0.013	0.0006	0.031
GO EXTRACELLULAR MATRIX BINDING	51	5 (9.8)	5 (9.8)	0 (0)	0.019	0.0007	0.0342
GO SULFUR COMPOUND BINDING	234	10 (4.3)	10 (4.3)	0 (0)	0.023	0.0009	0.0418
GO CHEMOKINE RECEPTOR BINDING	56	4 (7.1)	4 (7.1)	0 (0)	0.015	0.001	0.0442
GO CIS TRANS ISOMERASE ACTIVITY	45	4 (8.9)	4 (8.9)	0 (0)	0.016	0.0011	0.0444
GO APOLIPOPROTEIN BINDING	15	3 (20)	3 (20)	0 (0)	0.013	0.0011	0.0444
GO GLUCOSYLTRANSFERASE ACTIVITY	16	3 (18.8)	3 (18.8)	0 (0)	0.013	0.0012	0.0464
GO COLLAGEN BINDING	65	5 (7.7)	5 (7.7)	0 (0)	0.018	0.0017	0.0632
GO PEPTIDASE INHIBITOR ACTIVITY	173	7 (4)	7 (4)	0 (0)	0.018	0.0019	0.0679
GO LIPOPROTEIN PARTICLE RECEPTOR BINDING	22	3 (13.6)	3 (13.6)	0 (0)	0.013	0.002	0.0688
GO DOUBLE STRANDED RNA BINDING	64	5 (7.8)	5 (7.8)	0 (0)	0.018	0.0025	0.0829
GO VIRUS RECEPTOR ACTIVITY	70	5 (7.1)	5 (7.1)	0 (0)	0.018	0.0026	0.0833
GO CYTOKINE ACTIVITY	218	7 (3.2)	7 (3.2)	0 (0)	0.017	0.0029	0.0898

Table 23: Enriched MSigDB Molecular Functions (RNA-Seq, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME UNFOLDED PROTEIN RESPONSE	77	20 (26)	20 (26)	0 (0)	0.074	<0.0001	0.0056
REACTOME DIABETES PATHWAYS	129	23 (17.8)	23 (17.8)	0 (0)	0.072	<0.0001	0.0056
REACTOME ACTIVATION OF CHAPERONE GENES BY XBP1S	45	9 (20)	9 (20)	0 (0)	0.036	<0.0001	0.0056
REACTOME RESPONSE TO Elevated PLATELET CYTOSOLIC C...	81	10 (12.3)	10 (12.3)	0 (0)	0.035	<0.0001	0.0056
REACTOME PERK REGULATED GENE EXPRESSION	27	8 (29.6)	8 (29.6)	0 (0)	0.035	<0.0001	0.0056
REACTOME ASPARAGINE N LINKED GLYCOSYLATION	81	9 (11.1)	9 (11.1)	0 (0)	0.032	<0.0001	0.0056
REACTOME INNATE IMMUNE SYSTEM	269	14 (5.2)	14 (5.2)	0 (0)	0.030	<0.0001	0.0056
REACTOME ACTIVATION OF CHAPERONES BY ATF6 ALPHA	11	6 (54.5)	6 (54.5)	0 (0)	0.028	<0.0001	0.0056
REACTOME ANTIGEN PRESENTATION FOLDING ASSEMBLY AND...	20	6 (30)	6 (30)	0 (0)	0.026	<0.0001	0.0056
REACTOME ACTIVATION OF GENES BY ATF4	24	6 (25)	6 (25)	0 (0)	0.026	<0.0001	0.0056
REACTOME ACTIVATION OF CHAPERONE GENES BY ATF6 ALP...	9	5 (55.6)	5 (55.6)	0 (0)	0.023	<0.0001	0.0056
REACTOME CALNEXIN CALRETICULIN CYCLE	11	4 (36.4)	4 (36.4)	0 (0)	0.018	<0.0001	0.0056
REACTOME N GLYCAN TRIMMING IN THE ER AND CALNEXIN ...	13	4 (30.8)	4 (30.8)	0 (0)	0.018	0.0002	0.0104
REACTOME INTERFERON SIGNALING	153	10 (6.5)	10 (6.5)	0 (0)	0.028	0.0003	0.0144
REACTOME IMMUNE SYSTEM	895	30 (3.4)	30 (3.4)	0 (0)	0.028	0.0004	0.018
REACTOME IMMUNOREGULATORY INTERACTIONS BETWEEN A L...	61	6 (9.8)	6 (9.8)	0 (0)	0.022	0.0005	0.0211

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME POST TRANSLATIONAL PROTEIN MODIFICATION	183	11 (6)	11 (6)	0 (0)	0.029	0.0006	0.0238
REACTOME INTEGRIN CELL SURFACE INTERACTIONS	79	7 (8.9)	7 (8.9)	0 (0)	0.025	0.0011	0.0412
REACTOME HEMOSTASIS	452	18 (4)	18 (4)	0 (0)	0.028	0.0012	0.0426
REACTOME RIG I MDA5 MEDIATED INDUCTION OF IFN ALPH...	72	6 (8.3)	6 (8.3)	0 (0)	0.021	0.0015	0.0505
REACTOME SRP DEPENDENT COTRANSLATIONAL PROTEIN TAR...	108	7 (6.5)	7 (6.5)	0 (0)	0.022	0.0019	0.061
REACTOME REGULATION OF COMPLEMENT CASCADE	13	3 (23.1)	3 (23.1)	0 (0)	0.013	0.0021	0.0643
REACTOME INTERFERON ALPHA BETA SIGNALING	62	5 (8.1)	5 (8.1)	0 (0)	0.018	0.0028	0.0814
REACTOME CHEMOKINE RECEPTORS BIND CHEMOKINES	54	4 (7.4)	4 (7.4)	0 (0)	0.015	0.0029	0.0814
REACTOME PLATELET ACTIVATION SIGNALING AND AGGREGA...	198	10 (5.1)	10 (5.1)	0 (0)	0.025	0.0031	0.0824
REACTOME NEGATIVE REGULATORS OF RIG I MDA5 SIGNALI...	30	4 (13.3)	4 (13.3)	0 (0)	0.017	0.0033	0.0824
REACTOME TRAF3 DEPENDENT IRF ACTIVATION PATHWAY	14	3 (21.4)	3 (21.4)	0 (0)	0.013	0.0032	0.0824
REACTOME METABOLISM OF PROTEINS	427	16 (3.7)	16 (3.7)	0 (0)	0.026	0.0038	0.0915

Table 24: Enriched MSigDB Reactome Pathways (RNA-Seq, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	153 (8.3)	144 (7.8)	9 (0.5)	0.059	<0.0001	0.0026
GO RESPONSE TO ENDOPLASMIC RETICULUM STRESS	233	59 (25.3)	58 (24.9)	1 (0.4)	0.055	<0.0001	0.0026
GO IMMUNE SYSTEM PROCESS	1936	146 (7.5)	136 (7)	10 (0.5)	0.054	<0.0001	0.0026
GO POSITIVE REGULATION OF RESPONSE TO STIMULUS	1894	139 (7.3)	132 (7)	7 (0.4)	0.052	<0.0001	0.0026
GO RESPONSE TO EXTERNAL STIMULUS	1797	134 (7.5)	129 (7.2)	5 (0.3)	0.052	<0.0001	0.0026
GO REGULATION OF CELL DEATH	1473	117 (7.9)	110 (7.5)	7 (0.5)	0.052	<0.0001	0.0026
GO CELLULAR RESPONSE TO STRESS	1560	120 (7.7)	108 (6.9)	12 (0.8)	0.051	<0.0001	0.0026
GO RESPONSE TO OXYGEN CONTAINING COMPOUND	1383	111 (8)	102 (7.4)	9 (0.7)	0.051	<0.0001	0.0026
GO REGULATION OF PROTEIN MODIFICATION PROCESS	1709	126 (7.4)	116 (6.8)	10 (0.6)	0.051	<0.0001	0.0026
GO RESPONSE TO CYTOKINE	711	77 (10.8)	74 (10.4)	3 (0.4)	0.050	<0.0001	0.0026
GO REGULATION OF PHOSPHORUS METABOLIC PROCESS	1618	119 (7.4)	108 (6.7)	11 (0.7)	0.050	<0.0001	0.0026
GO POSITIVE REGULATION OF MULTICELLULAR ORGANISMAL...	1393	108 (7.8)	100 (7.2)	8 (0.6)	0.050	<0.0001	0.0026
GO RESPONSE TO BIOTIC STIMULUS	862	83 (9.6)	81 (9.4)	2 (0.2)	0.050	<0.0001	0.0026
GO REGULATION OF CELL PROLIFERATION	1493	112 (7.5)	102 (6.8)	10 (0.7)	0.049	<0.0001	0.0026
GO REGULATION OF RESPONSE TO STRESS	1468	110 (7.5)	105 (7.2)	5 (0.3)	0.049	<0.0001	0.0026
GO REGULATION OF IMMUNE SYSTEM PROCESS	1365	105 (7.7)	99 (7.3)	6 (0.4)	0.049	<0.0001	0.0026
GO REGULATION OF INTRACELLULAR SIGNAL TRANSDUCTION	1659	118 (7.1)	113 (6.8)	5 (0.3)	0.048	<0.0001	0.0026
GO POSITIVE REGULATION OF IMMUNE SYSTEM PROCESS	833	79 (9.5)	76 (9.1)	3 (0.4)	0.048	<0.0001	0.0026
GO POSITIVE REGULATION OF GENE EXPRESSION	1732	119 (6.9)	109 (6.3)	10 (0.6)	0.047	<0.0001	0.0026
GO POSITIVE REGULATION OF CELL COMMUNICATION	1530	109 (7.1)	102 (6.7)	7 (0.5)	0.047	<0.0001	0.0026
GO IMMUNE RESPONSE	1057	87 (8.2)	83 (7.9)	4 (0.4)	0.046	<0.0001	0.0026
GO REGULATION OF MULTICELLULAR ORGANISMAL DEVELOPM...	1670	112 (6.7)	103 (6.2)	9 (0.5)	0.046	<0.0001	0.0026
GO DEFENSE RESPONSE	1200	91 (7.6)	88 (7.3)	3 (0.2)	0.045	<0.0001	0.0026
GO RESPONSE TO ENDOGENOUS STIMULUS	1454	101 (6.9)	93 (6.4)	8 (0.6)	0.045	<0.0001	0.0026
GO RESPONSE TO NITROGEN COMPOUND	862	75 (8.7)	70 (8.1)	5 (0.6)	0.044	<0.0001	0.0026
GO RESPONSE TO ORGANIC CYCLIC COMPOUND	918	77 (8.4)	69 (7.5)	8 (0.9)	0.044	<0.0001	0.0026
GO CELLULAR RESPONSE TO CYTOKINE STIMULUS	603	63 (10.4)	61 (10.1)	2 (0.3)	0.044	<0.0001	0.0026
GO NEGATIVE REGULATION OF RESPONSE TO STIMULUS	1364	95 (7)	92 (6.7)	3 (0.2)	0.044	<0.0001	0.0026

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO POSITIVE REGULATION OF PROTEIN METABOLIC PROCESS...	1490	100 (6.7)	93 (6.2)	7 (0.5)	0.044	<0.0001	0.0026
GO REGULATION OF CELL DIFFERENTIATION	1489	99 (6.6)	91 (6.1)	8 (0.5)	0.043	<0.0001	0.0026
GO HOMEOSTATIC PROCESS	1334	92 (6.9)	84 (6.3)	8 (0.6)	0.043	<0.0001	0.0026
GO RESPONSE TO ABIOTIC STIMULUS	1026	79 (7.7)	74 (7.2)	5 (0.5)	0.043	<0.0001	0.0026
GO TISSUE DEVELOPMENT	1518	99 (6.5)	88 (5.8)	11 (0.7)	0.043	<0.0001	0.0026
GO POSITIVE REGULATION OF DEVELOPMENTAL PROCESS	1141	83 (7.3)	74 (6.5)	9 (0.8)	0.042	<0.0001	0.0026
GO NEGATIVE REGULATION OF CELL DEATH	874	72 (8.2)	70 (8)	2 (0.2)	0.042	<0.0001	0.0026
GO POSITIVE REGULATION OF INTRACELLULAR SIGNAL TRA...	874	72 (8.2)	70 (8)	2 (0.2)	0.042	<0.0001	0.0026
GO ION TRANSPORT	1252	87 (6.9)	83 (6.6)	4 (0.3)	0.042	<0.0001	0.0026
GO REGULATION OF CYTOKINE PRODUCTION	560	59 (10.5)	59 (10.5)	0 (0)	0.042	<0.0001	0.0026
GO NEGATIVE REGULATION OF PROTEIN METABOLIC PROCES...	1085	79 (7.3)	73 (6.7)	6 (0.6)	0.042	<0.0001	0.0026
GO CARDIOVASCULAR SYSTEM DEVELOPMENT	789	67 (8.5)	64 (8.1)	3 (0.4)	0.041	<0.0001	0.0026
GO CIRCULATORY SYSTEM DEVELOPMENT	789	67 (8.5)	64 (8.1)	3 (0.4)	0.041	<0.0001	0.0026
GO CELL DEATH	1002	75 (7.5)	68 (6.8)	7 (0.7)	0.041	<0.0001	0.0026
GO NEGATIVE REGULATION OF MULTICELLULAR ORGANISMAL...	981	74 (7.5)	71 (7.2)	3 (0.3)	0.041	<0.0001	0.0026
GO RESPONSE TO LIPID	888	70 (7.9)	65 (7.3)	5 (0.6)	0.041	<0.0001	0.0026
GO CELLULAR HOMEOSTASIS	675	61 (9)	59 (8.7)	2 (0.3)	0.040	<0.0001	0.0026
GO RESPONSE TO TOPOLOGICALLY INCORRECT PROTEIN	163	41 (25.2)	41 (25.2)	0 (0)	0.040	<0.0001	0.0026
GO POSITIVE REGULATION OF CELL PROLIFERATION	814	66 (8.1)	60 (7.4)	6 (0.7)	0.040	<0.0001	0.0026
GO POSITIVE REGULATION OF PHOSPHATE METABOLIC PROC...	1034	74 (7.2)	70 (6.8)	4 (0.4)	0.040	<0.0001	0.0026
GO POSITIVE REGULATION OF PHOSPHORUS METABOLIC PRO...	1034	74 (7.2)	70 (6.8)	4 (0.4)	0.040	<0.0001	0.0026
GO CELLULAR RESPONSE TO ENDOGENOUS STIMULUS	1012	73 (7.2)	66 (6.5)	7 (0.7)	0.040	<0.0001	0.0026

Table 25: Enriched MSigDB Biological Processes (RNA-Seq, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO ENDOPLASMIC RETICULUM	1624	178 (11)	170 (10.5)	8 (0.5)	0.076	<0.0001	0.002
GO ENDOPLASMIC RETICULUM PART	1157	143 (12.4)	139 (12)	4 (0.3)	0.075	<0.0001	0.002
GO NUCLEAR OUTER MEMBRANE ENDOPLASMIC RETICULUM ME...	1000	118 (11.8)	115 (11.5)	3 (0.3)	0.066	<0.0001	0.002
GO INTRACELLULAR VESICLE	1256	111 (8.8)	105 (8.4)	6 (0.5)	0.054	<0.0001	0.002
GO GOLGI APPARATUS	1443	108 (7.5)	105 (7.3)	3 (0.2)	0.048	<0.0001	0.002
GO EXTRACELLULAR SPACE	1342	103 (7.7)	98 (7.3)	5 (0.4)	0.048	<0.0001	0.002
GO VACUOLAR PART	689	72 (10.4)	69 (10)	3 (0.4)	0.048	<0.0001	0.002
GO VACUOLE	1174	91 (7.8)	87 (7.4)	4 (0.3)	0.046	<0.0001	0.002
GO CELL SURFACE	730	69 (9.5)	68 (9.3)	1 (0.1)	0.044	<0.0001	0.002
GO LYtic VACUOLE	523	56 (10.7)	53 (10.1)	3 (0.6)	0.041	<0.0001	0.002
GO VACUOLAR MEMBRANE	582	56 (9.6)	54 (9.3)	2 (0.3)	0.039	<0.0001	0.002
GO CYTOPLASMIC VESICLE PART	599	56 (9.3)	52 (8.7)	4 (0.7)	0.039	<0.0001	0.002
GO ENDOPLASMIC RETICULUM LUMEN	201	39 (19.4)	38 (18.9)	1 (0.5)	0.037	<0.0001	0.002
GO LYtic VACUOLE MEMBRANE	273	35 (12.8)	33 (12.1)	2 (0.7)	0.031	<0.0001	0.002
GO INTRINSIC COMPONENT OF ORGANELLE MEMBRANE	278	35 (12.6)	35 (12.6)	0 (0)	0.031	<0.0001	0.002
GO INTRINSIC COMPONENT OF ENDOPLASMIC RETICULUM ME...	133	29 (21.8)	29 (21.8)	0 (0)	0.029	<0.0001	0.002
GO SECRETORY GRANULE	354	33 (9.3)	32 (9)	1 (0.3)	0.027	<0.0001	0.002
GO ENDOPLASMIC RETICULUM GOLGI INTERMEDIATE COMPAR...	105	25 (23.8)	25 (23.8)	0 (0)	0.025	<0.0001	0.002

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO PIGMENT GRANULE	102	24 (23.5)	22 (21.6)	2 (2)	0.025	<0.0001	0.002
GO VACUOLAR LUMEN	115	24 (20.9)	23 (20)	1 (0.9)	0.024	<0.0001	0.002
GO LYSOSOMAL LUMEN	88	19 (21.6)	18 (20.5)	1 (1.1)	0.020	<0.0001	0.002
GO ROUGH ENDOPLASMIC RETICULUM	71	17 (23.9)	17 (23.9)	0 (0)	0.018	<0.0001	0.002
GO LATE ENDOSOME MEMBRANE	103	15 (14.6)	14 (13.6)	1 (1)	0.015	<0.0001	0.002
GO ENDOPLASMIC RETICULUM GOLGI INTERMEDIATE COMPAR...	63	14 (22.2)	14 (22.2)	0 (0)	0.015	<0.0001	0.002
GO ER TO GOLGI TRANSPORT VESICLE	68	12 (17.6)	12 (17.6)	0 (0)	0.013	<0.0001	0.002
GO PLATELET ALPHA GRANULE	76	12 (15.8)	11 (14.5)	1 (1.3)	0.013	<0.0001	0.002
GO LUMENAL SIDE OF MEMBRANE	30	10 (33.3)	10 (33.3)	0 (0)	0.011	<0.0001	0.002
GO ENDOPLASMIC RETICULUM CHAPERONE COMPLEX	11	8 (72.7)	8 (72.7)	0 (0)	0.009	<0.0001	0.002
GO DERLIN 1 RETROTRANSLOCATION COMPLEX	11	5 (45.5)	5 (45.5)	0 (0)	0.005	<0.0001	0.002
GO LATE ENDOSOME	211	24 (11.4)	23 (10.9)	1 (0.5)	0.022	0.0002	0.0034
GO VESICLE LUMEN	107	14 (13.1)	13 (12.1)	1 (0.9)	0.014	0.0002	0.0034
GO SMOOTH ENDOPLASMIC RETICULUM	33	9 (27.3)	9 (27.3)	0 (0)	0.010	0.0002	0.0034
GO TRIGLYCERIDE RICH LIPOPROTEIN PARTICLE	20	5 (25)	5 (25)	0 (0)	0.005	0.0002	0.0034
GO VERY LOW DENSITY LIPOPROTEIN PARTICLE	20	5 (25)	5 (25)	0 (0)	0.005	0.0002	0.0034
GO GOLGI MEMBRANE	698	58 (8.3)	56 (8)	2 (0.3)	0.038	0.0003	0.0046
GO ENDOCYTIC VESICLE	254	27 (10.6)	25 (9.8)	2 (0.8)	0.024	0.0003	0.0046
GO PHAGOCYTIC VESICLE	85	13 (15.3)	12 (14.1)	1 (1.2)	0.013	0.0003	0.0046
GO HOST	12	5 (41.7)	5 (41.7)	0 (0)	0.005	0.0003	0.0046
GO ROUGH ENDOPLASMIC RETICULUM MEMBRANE	21	6 (28.6)	6 (28.6)	0 (0)	0.007	0.0004	0.006
GO VESICLE MEMBRANE	509	43 (8.4)	40 (7.9)	3 (0.6)	0.032	0.0005	0.0071
GO ENDOCYTIC VESICLE LUMEN	17	5 (29.4)	5 (29.4)	0 (0)	0.005	0.0005	0.0071
GO ER TO GOLGI TRANSPORT VESICLE MEMBRANE	52	9 (17.3)	9 (17.3)	0 (0)	0.010	0.0006	0.0083
GO SIDE OF MEMBRANE	405	34 (8.4)	34 (8.4)	0 (0)	0.027	0.0007	0.0095
GO SECRETORY VESICLE	463	36 (7.8)	35 (7.6)	1 (0.2)	0.027	0.0008	0.0104
GO MHC CLASS I PROTEIN COMPLEX	10	4 (40)	4 (40)	0 (0)	0.004	0.0008	0.0104
GO EXTERNAL SIDE OF PLASMA MEMBRANE	215	21 (9.8)	21 (9.8)	0 (0)	0.019	0.0009	0.0112
GO ENDOPLASMIC RETICULUM QUALITY CONTROL COMPARTME...	13	5 (38.5)	5 (38.5)	0 (0)	0.005	0.0009	0.0112
GO PHAGOCYTIC VESICLE MEMBRANE	57	9 (15.8)	8 (14)	1 (1.8)	0.009	0.0011	0.0134
GO ENDOSOME LUMEN	26	6 (23.1)	6 (23.1)	0 (0)	0.006	0.0012	0.0143
GO ENDOSOMAL PART	425	35 (8.2)	34 (8)	1 (0.2)	0.027	0.0014	0.0164

Table 26: Enriched MSigDB Cellular Components (RNA-Seq, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE41978 ID2 KO VS BIM KO KLRG1 LOW EFFECTOR CD8 T...	199	58 (29.1)	57 (28.6)	1 (0.5)	0.056	<0.0001	0.0012
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	57 (28.6)	57 (28.6)	0 (0)	0.055	<0.0001	0.0012
GSE42021 TREG VS TCONV PLN UP	199	57 (28.6)	55 (27.6)	2 (1)	0.055	<0.0001	0.0012
GSE18791 CTRL VS NEWCASTLE VIRUS DC 6H DN	197	51 (25.9)	48 (24.4)	3 (1.5)	0.049	<0.0001	0.0012
GSE42021 CD24HI VS CD24INT TREG THYMUS DN	198	51 (25.8)	49 (24.7)	2 (1)	0.049	<0.0001	0.0012
GSE42021 TREG PLN VS CD24INT TREG THYMUS DN	200	50 (25)	48 (24)	2 (1)	0.048	<0.0001	0.0012
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	49 (26.1)	48 (25.5)	1 (0.5)	0.047	<0.0001	0.0012
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	49 (25.9)	49 (25.9)	0 (0)	0.047	<0.0001	0.0012

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	48 (25.1)	48 (25.1)	0 (0)	0.046	<0.0001	0.0012
GSE2706 UNSTIM VS 2H LPS DC DN	192	47 (24.5)	47 (24.5)	0 (0)	0.045	<0.0001	0.0012
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	46 (22.9)	46 (22.9)	0 (0)	0.044	<0.0001	0.0012
GSE18791 CTRL VS NEWCASTLE VIRUS DC 4H DN	185	45 (24.3)	44 (23.8)	1 (0.5)	0.043	<0.0001	0.0012
GSE21546 WT VS SAP1A KO DP THYMOCYTES UP	194	45 (23.2)	44 (22.7)	1 (0.5)	0.043	<0.0001	0.0012
GSE37533 PPARG1 FOXP3 VS PPARG2 FOXP3 TRANSDUCED C...	199	45 (22.6)	44 (22.1)	1 (0.5)	0.043	<0.0001	0.0012
GSE9988 ANTI TREM1 AND LPS VS VEHICLE TREATED MONO...	188	44 (23.4)	42 (22.3)	2 (1.1)	0.042	<0.0001	0.0012
GSE2706 UNSTIM VS 2H R848 DC DN	190	44 (23.2)	44 (23.2)	0 (0)	0.042	<0.0001	0.0012
GSE9988 LOW LPS VS VEHICLE TREATED MONOCYTE UP	189	44 (23.3)	44 (23.3)	0 (0)	0.042	<0.0001	0.0012
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	44 (22.3)	43 (21.8)	1 (0.5)	0.042	<0.0001	0.0012
GSE9988 ANTI TREM1 AND LPS VS CTRL TREATED MONOCYT...	190	43 (22.6)	42 (22.1)	1 (0.5)	0.041	<0.0001	0.0012
GSE42724 NAIVE BCELL VS PLASMABLAST UP	193	43 (22.3)	43 (22.3)	0 (0)	0.041	<0.0001	0.0012
GSE9988 ANTI TREM1 VS CTRL TREATED MONOCYTES UP	192	43 (22.4)	41 (21.4)	2 (1)	0.041	<0.0001	0.0012
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	43 (21.7)	42 (21.2)	1 (0.5)	0.041	<0.0001	0.0012
GSE21360 PRIMARY VS TERTIARY MEMORY CD8 TCELL DN	200	43 (21.5)	42 (21)	1 (0.5)	0.041	<0.0001	0.0012
GSE13485 CTRL VS DAY7 YF17D VACCINE PBMC DN	202	43 (21.3)	42 (20.8)	1 (0.5)	0.041	<0.0001	0.0012
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	42 (22)	42 (22)	0 (0)	0.040	<0.0001	0.0012
GSE14000 UNSTIM VS 4H LPS DC DN	199	42 (21.1)	42 (21.1)	0 (0)	0.040	<0.0001	0.0012
GSE37533 PPARG1 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	199	42 (21.1)	41 (20.6)	1 (0.5)	0.040	<0.0001	0.0012
GSE37533 PPARG2 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	198	42 (21.2)	41 (20.7)	1 (0.5)	0.040	<0.0001	0.0012
GSE42021 CD24HI VS CD24LOW TCONV THYMUS DN	199	42 (21.1)	42 (21.1)	0 (0)	0.040	<0.0001	0.0012
GSE42021 TREG PLN VS TREG PRECURSORS THYMUS DN	198	42 (21.2)	40 (20.2)	2 (1)	0.040	<0.0001	0.0012
GSE14769 UNSTIM VS 120MIN LPS BMDM DN	200	42 (21)	42 (21)	0 (0)	0.040	<0.0001	0.0012
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	42 (20.9)	42 (20.9)	0 (0)	0.040	<0.0001	0.0012
GSE9988 LOW LPS VS CTRL TREATED MONOCYTE UP	189	41 (21.7)	41 (21.7)	0 (0)	0.039	<0.0001	0.0012
GSE42021 TREG PLN VS CD24LO TREG THYMUS DN	196	41 (20.9)	39 (19.9)	2 (1)	0.039	<0.0001	0.0012
GSE14000 UNSTIM VS 4H LPS DC TRANSLATED RNA DN	198	41 (20.7)	41 (20.7)	0 (0)	0.039	<0.0001	0.0012
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	41 (20.5)	41 (20.5)	0 (0)	0.039	<0.0001	0.0012
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	41 (20.5)	39 (19.5)	2 (1)	0.039	<0.0001	0.0012
GSE22140 GERMFREE VS SPF MOUSE CD4 TCELL UP	200	41 (20.5)	41 (20.5)	0 (0)	0.039	<0.0001	0.0012
GSE22886 CTRL VS LPS 24H DC DN	201	41 (20.4)	41 (20.4)	0 (0)	0.039	<0.0001	0.0012
GSE10325 MYELOID VS LUPUS MYELOID DN	200	40 (20)	40 (20)	0 (0)	0.038	<0.0001	0.0012
GSE13484 UNSTIM VS YF17D VACCINE STIM PBMC DN	199	40 (20.1)	39 (19.6)	1 (0.5)	0.038	<0.0001	0.0012
GSE2770 UNTREATED VS IL12 TREATED ACT CD4 TCELL 6H...	200	40 (20)	39 (19.5)	1 (0.5)	0.038	<0.0001	0.0012
GSE9988 ANTI TREM1 VS VEHICLE TREATED MONOCYTES UP	189	39 (20.6)	37 (19.6)	2 (1.1)	0.037	<0.0001	0.0012
GSE13485 CTRL VS DAY3 YF17D VACCINE PBMC DN	200	39 (19.5)	35 (17.5)	4 (2)	0.037	<0.0001	0.0012
GSE32986 CURDLAN HIGHDOSE VS GMCSF AND CURDLAN HIG...	202	39 (19.3)	38 (18.8)	1 (0.5)	0.037	<0.0001	0.0012
GSE18791 CTRL VS NEWCASTLE VIRUS DC 16H DN	189	38 (20.1)	36 (19)	2 (1.1)	0.036	<0.0001	0.0012
GSE9988 ANTI TREM1 VS LOW LPS MONOCYTE DN	193	38 (19.7)	37 (19.2)	1 (0.5)	0.036	<0.0001	0.0012
GSE13485 DAY3 VS DAY7 YF17D VACCINE PBMC DN	196	38 (19.4)	37 (18.9)	1 (0.5)	0.036	<0.0001	0.0012
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 6H DN	195	38 (19.5)	38 (19.5)	0 (0)	0.036	<0.0001	0.0012
GSE2706 UNSTIM VS 8H R848 DC DN	196	38 (19.4)	38 (19.4)	0 (0)	0.036	<0.0001	0.0012

Table 27: Enriched MSigDB Immunological Signatures (RNA-Seq, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG LYSOSOME	121	28 (23.1)	26 (21.5)	2 (1.7)	0.028	<0.0001	0.0074
KEGG CYTOKINE CYTOKINE RECEPTOR INTERACTION	263	25 (9.5)	25 (9.5)	0 (0)	0.022	0.0002	0.0074
KEGG OXIDATIVE PHOSPHORYLATION	129	14 (10.9)	14 (10.9)	0 (0)	0.014	0.0002	0.0074
KEGG ANTIGEN PROCESSING AND PRESENTATION	81	13 (16)	13 (16)	0 (0)	0.013	<0.0001	0.0074
KEGG OTHER GLYCAN DEGRADATION	16	6 (37.5)	5 (31.2)	1 (6.2)	0.007	0.0002	0.0074
KEGG SPHINGOLIPID METABOLISM	39	9 (23.1)	8 (20.5)	1 (2.6)	0.010	0.0005	0.0155
KEGG PARKINSONS DISEASE	126	13 (10.3)	13 (10.3)	0 (0)	0.013	0.0016	0.0372
KEGG PROTEIN EXPORT	23	6 (26.1)	6 (26.1)	0 (0)	0.007	0.0014	0.0372
KEGG NOD LIKE RECEPTOR SIGNALING PATHWAY	62	9 (14.5)	9 (14.5)	0 (0)	0.009	0.003	0.062

Table 28: Enriched MSigDB KEGG Pathways (RNA-Seq, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO RECEPTOR BINDING	1454	101 (6.9)	96 (6.6)	5 (0.3)	0.045	<0.0001	0.0058
GO CYTOKINE RECEPTOR BINDING	270	27 (10)	26 (9.6)	1 (0.4)	0.024	<0.0001	0.0058
GO CYTOKINE ACTIVITY	218	23 (10.6)	23 (10.6)	0 (0)	0.021	<0.0001	0.0058
GO ORGANIC ANION TRANSMEMBRANE TRANSPORTER ACTIVIT...	175	21 (12)	21 (12)	0 (0)	0.020	<0.0001	0.0058
GO ORGANIC ACID TRANSMEMBRANE TRANSPORTER ACTIVITY	140	19 (13.6)	19 (13.6)	0 (0)	0.019	<0.0001	0.0058
GO GLYCOPROTEIN BINDING	101	17 (16.8)	17 (16.8)	0 (0)	0.017	<0.0001	0.0058
GO INTEGRIN BINDING	105	16 (15.2)	16 (15.2)	0 (0)	0.016	<0.0001	0.0058
GO AMINO ACID TRANSMEMBRANE TRANSPORTER ACTIVITY	77	15 (19.5)	15 (19.5)	0 (0)	0.016	<0.0001	0.0058
GO VIRUS RECEPTOR ACTIVITY	70	13 (18.6)	13 (18.6)	0 (0)	0.014	<0.0001	0.0058
GO CHEMOKINE RECEPTOR BINDING	56	11 (19.6)	11 (19.6)	0 (0)	0.012	<0.0001	0.0058
GO L AMINO ACID TRANSMEMBRANE TRANSPORTER ACTIVITY	54	11 (20.4)	11 (20.4)	0 (0)	0.012	<0.0001	0.0058
GO CHEMOKINE ACTIVITY	47	10 (21.3)	10 (21.3)	0 (0)	0.011	<0.0001	0.0058
GO FIBRONECTIN BINDING	28	9 (32.1)	9 (32.1)	0 (0)	0.010	<0.0001	0.0058
GO NEUTRAL AMINO ACID TRANSMEMBRANE TRANSPORTER AC...	32	8 (25)	8 (25)	0 (0)	0.009	<0.0001	0.0058
GO CXCR CHEMOKINE RECEPTOR BINDING	16	7 (43.8)	7 (43.8)	0 (0)	0.008	<0.0001	0.0058
GO INTRAMOLECULAR OXIDOREDUCTASE ACTIVITY TRANSPOS...	22	7 (31.8)	7 (31.8)	0 (0)	0.008	<0.0001	0.0058
GO ANION TRANSMEMBRANE TRANSPORTER ACTIVITY	290	30 (10.3)	30 (10.3)	0 (0)	0.026	0.0002	0.0098
GO UNFOLDED PROTEIN BINDING	94	13 (13.8)	13 (13.8)	0 (0)	0.013	0.0002	0.0098
GO MISFOLDED PROTEIN BINDING	12	5 (41.7)	5 (41.7)	0 (0)	0.005	0.0002	0.0098
GO G PROTEIN COUPLED RECEPTOR BINDING	258	21 (8.1)	21 (8.1)	0 (0)	0.018	0.0003	0.0139
GO GROWTH FACTOR ACTIVITY	161	17 (10.6)	17 (10.6)	0 (0)	0.016	0.0004	0.0169
GO COLLAGEN BINDING	65	11 (16.9)	10 (15.4)	1 (1.5)	0.011	0.0004	0.0169
GO HEPARIN BINDING	157	17 (10.8)	17 (10.8)	0 (0)	0.016	0.0005	0.0194
GO GLUCOSYLTRANSFERASE ACTIVITY	16	5 (31.2)	5 (31.2)	0 (0)	0.005	0.0005	0.0194
GO PEPTIDE ANTIGEN BINDING	27	6 (22.2)	6 (22.2)	0 (0)	0.006	0.0007	0.026
GO PROTEASE BINDING	104	13 (12.5)	13 (12.5)	0 (0)	0.013	0.0008	0.0286
GO LIPASE ACTIVITY	117	13 (11.1)	12 (10.3)	1 (0.9)	0.013	0.0009	0.031
GO CHAPERONE BINDING	82	11 (13.4)	11 (13.4)	0 (0)	0.011	0.001	0.0332
GO ACTIVE TRANSMEMBRANE TRANSPORTER ACTIVITY	353	31 (8.8)	31 (8.8)	0 (0)	0.025	0.0012	0.0348
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	28 (8.5)	25 (7.6)	3 (0.9)	0.023	0.0012	0.0348
GO SECONDARY ACTIVE TRANSMEMBRANE TRANSPORTER ACTI...	231	23 (10)	23 (10)	0 (0)	0.021	0.0012	0.0348

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO CELL ADHESION MOLECULE BINDING	186	20 (10.8)	20 (10.8)	0 (0)	0.019	0.0012	0.0348
GO AMIDE TRANSMEMBRANE TRANSPORTER ACTIVITY	18	5 (27.8)	5 (27.8)	0 (0)	0.005	0.0013	0.0366
GO MONOSACCHARIDE BINDING	70	10 (14.3)	9 (12.9)	1 (1.4)	0.010	0.0014	0.0382
GO TRANSMEMBRANE TRANSPORTER ACTIVITY	989	67 (6.8)	67 (6.8)	0 (0)	0.037	0.0016	0.0425
GO INTRAMOLECULAR OXIDOREDUCTASE ACTIVITY	53	8 (15.1)	7 (13.2)	1 (1.9)	0.009	0.0017	0.0439
GO HORMONE ACTIVITY	120	9 (7.5)	9 (7.5)	0 (0)	0.009	0.0019	0.0477
GO PEPTIDYL PROLINE DIOXYGENASE ACTIVITY	12	4 (33.3)	4 (33.3)	0 (0)	0.004	0.0023	0.0562
GO SOLUTE CATION SYMPORTER ACTIVITY	99	12 (12.1)	12 (12.1)	0 (0)	0.012	0.0025	0.0595
GO CYTOKINE BINDING	92	11 (12)	11 (12)	0 (0)	0.011	0.0027	0.0627
GO GLYCOSAMINOGLYCAN BINDING	204	18 (8.8)	18 (8.8)	0 (0)	0.017	0.0029	0.0657
GO TRANSPORTER ACTIVITY	1269	79 (6.2)	77 (6.1)	2 (0.2)	0.038	0.0032	0.0676
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERA...	226	20 (8.8)	18 (8)	2 (0.9)	0.018	0.0031	0.0676
GO INSULIN LIKE GROWTH FACTOR BINDING	25	5 (20)	5 (20)	0 (0)	0.005	0.0032	0.0676
GO TRANSITION METAL ION TRANSMEMBRANE TRANSPORTER ...	39	7 (17.9)	7 (17.9)	0 (0)	0.007	0.0033	0.0681
GO SYMPORTER ACTIVITY	142	15 (10.6)	15 (10.6)	0 (0)	0.015	0.0039	0.0788
GO L ASCORBIC ACID BINDING	21	5 (23.8)	5 (23.8)	0 (0)	0.005	0.0041	0.081
GO MANNOSE BINDING	18	4 (22.2)	4 (22.2)	0 (0)	0.004	0.0046	0.089
GO SERINE HYDROLASE ACTIVITY	217	17 (7.8)	17 (7.8)	0 (0)	0.015	0.0049	0.0929

Table 29: Enriched MSigDB Molecular Functions (RNA-Seq, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME IMMUNE SYSTEM	895	79 (8.8)	75 (8.4)	4 (0.4)	0.046	<0.0001	0.0042
REACTOME DIABETES PATHWAYS	129	31 (24)	31 (24)	0 (0)	0.031	<0.0001	0.0042
REACTOME CYTOKINE SIGNALING IN IMMUNE SYSTEM	263	33 (12.5)	32 (12.2)	1 (0.4)	0.029	<0.0001	0.0042
REACTOME UNFOLDED PROTEIN RESPONSE	77	25 (32.5)	25 (32.5)	0 (0)	0.026	<0.0001	0.0042
REACTOME INTERFERON SIGNALING	153	26 (17)	26 (17)	0 (0)	0.025	<0.0001	0.0042
REACTOME INTERFERON ALPHA BETA SIGNALING	62	16 (25.8)	16 (25.8)	0 (0)	0.017	<0.0001	0.0042
REACTOME ACTIVATION OF CHAPERONE GENES BY XBP1S	45	14 (31.1)	14 (31.1)	0 (0)	0.015	<0.0001	0.0042
REACTOME SPHINGOLIPID METABOLISM	67	14 (20.9)	13 (19.4)	1 (1.5)	0.015	<0.0001	0.0042
REACTOME RIG I MDA5 MEDIATED INDUCTION OF IFN ALPH...	72	14 (19.4)	14 (19.4)	0 (0)	0.015	<0.0001	0.0042
REACTOME INTERFERON GAMMA SIGNALING	59	13 (22)	13 (22)	0 (0)	0.014	<0.0001	0.0042
REACTOME RESPIRATORY ELECTRON TRANSPORT ATP SYNTHE...	93	12 (12.9)	12 (12.9)	0 (0)	0.012	<0.0001	0.0042
REACTOME RESPIRATORY ELECTRON TRANSPORT	75	11 (14.7)	11 (14.7)	0 (0)	0.011	<0.0001	0.0042
REACTOME CHEMOKINE RECEPTORS BIND CHEMOKINES	54	10 (18.5)	10 (18.5)	0 (0)	0.011	<0.0001	0.0042
REACTOME ANTIGEN PRESENTATION FOLDING ASSEMBLY AND...	20	9 (45)	9 (45)	0 (0)	0.010	<0.0001	0.0042
REACTOME ACTIVATION OF CHAPERONE GENES BY ATF6 ALP...	9	6 (66.7)	6 (66.7)	0 (0)	0.007	<0.0001	0.0042
REACTOME ACTIVATION OF CHAPERONES BY ATF6 ALPHA	11	6 (54.5)	6 (54.5)	0 (0)	0.007	<0.0001	0.0042
REACTOME PERK REGULATED GENE EXPRESSION	27	8 (29.6)	8 (29.6)	0 (0)	0.009	0.0002	0.0079
REACTOME NEGATIVE REGULATORS OF RIG I MDA5 SIGNALI...	30	8 (26.7)	8 (26.7)	0 (0)	0.009	0.0003	0.0112
REACTOME INNATE IMMUNE SYSTEM	269	27 (10)	26 (9.7)	1 (0.4)	0.024	0.0005	0.0177
REACTOME IMMUNOREGULATORY INTERACTIONS BETWEEN A L...	61	10 (16.4)	10 (16.4)	0 (0)	0.011	0.0009	0.0303
REACTOME AMINO ACID AND OLIGOPEPTIDE SLC TRANSPORT...	49	10 (20.4)	10 (20.4)	0 (0)	0.011	0.0011	0.0353
REACTOME PEPTIDE LIGAND BINDING RECEPTORS	184	16 (8.7)	16 (8.7)	0 (0)	0.015	0.0013	0.0365

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME GLYCOSPHINGOLIPID METABOLISM	37	8 (21.6)	7 (18.9)	1 (2.7)	0.009	0.0013	0.0365
REACTOME ACTIVATION OF GENES BY ATF4	24	6 (25)	6 (25)	0 (0)	0.006	0.0013	0.0365
REACTOME ANTIGEN PROCESSING CROSS PRESENTATION	72	11 (15.3)	11 (15.3)	0 (0)	0.011	0.0017	0.0458
REACTOME HYALURONAN UPTAKE AND DEGRADATION	10	4 (40)	4 (40)	0 (0)	0.004	0.0023	0.0596
REACTOME RESPONSE TO Elevated PLATELET CYTOSOLIC C...	81	12 (14.8)	11 (13.6)	1 (1.2)	0.012	0.0026	0.0649
REACTOME AMINO ACID TRANSPORT ACROSS THE PLASMA ME...	31	7 (22.6)	7 (22.6)	0 (0)	0.008	0.0029	0.0674
REACTOME TRAFFICKING AND PROCESSING OF ENDOSOMAL T...	12	4 (33.3)	4 (33.3)	0 (0)	0.004	0.0029	0.0674
REACTOME IL 6 SIGNALING	10	4 (40)	4 (40)	0 (0)	0.004	0.0033	0.0741
REACTOME TRANSPORT OF INORGANIC CATIONS ANIONS AND...	93	14 (15.1)	14 (15.1)	0 (0)	0.014	0.004	0.0863
REACTOME CALNEXIN CALRETICULIN CYCLE	11	4 (36.4)	4 (36.4)	0 (0)	0.004	0.0041	0.0863
REACTOME TCA CYCLE AND RESPIRATORY ELECTRON TRANSP...	129	13 (10.1)	13 (10.1)	0 (0)	0.013	0.0044	0.0899
REACTOME TRAF6 MEDIATED NFkB ACTIVATION	21	5 (23.8)	5 (23.8)	0 (0)	0.005	0.0048	0.0951

Table 30: Enriched MSigDB Reactome Pathways (RNA-Seq, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY IN RESPON...	32	7 (21.9)	7 (21.9)	0 (0)	0.065	<0.0001	0.0047
GO PERK MEDIATED UNFOLDED PROTEIN RESPONSE	12	5 (41.7)	5 (41.7)	0 (0)	0.056	<0.0001	0.0047
GO DEFENSE RESPONSE TO VIRUS	164	13 (7.9)	13 (7.9)	0 (0)	0.056	<0.0001	0.0047
GO RESPONSE TO ENDOPLASMIC RETICULUM STRESS	233	16 (6.9)	16 (6.9)	0 (0)	0.053	<0.0001	0.0047
GO CELLULAR RESPONSE TO TOPOLOGICALLY INCORRECT PR...	122	10 (8.2)	10 (8.2)	0 (0)	0.051	<0.0001	0.0047
GO RESPONSE TO TYPE I INTERFERON	67	7 (10.4)	7 (10.4)	0 (0)	0.049	<0.0001	0.0047
GO RESPONSE TO TOPOLOGICALLY INCORRECT PROTEIN	163	11 (6.7)	11 (6.7)	0 (0)	0.047	<0.0001	0.0047
GO ER NUCLEUS SIGNALING PATHWAY	34	5 (14.7)	5 (14.7)	0 (0)	0.045	<0.0001	0.0047
GO RESPONSE TO VIRUS	247	13 (5.3)	13 (5.3)	0 (0)	0.041	<0.0001	0.0047
GO REGULATION OF ENDOPLASMIC RETICULUM STRESS INDU...	30	4 (13.3)	4 (13.3)	0 (0)	0.037	<0.0001	0.0047
GO CELLULAR RESPONSE TO GLUCOSE STARVATION	31	4 (12.9)	4 (12.9)	0 (0)	0.037	<0.0001	0.0047
GO CELLULAR RESPONSE TO STARVATION	117	7 (6)	7 (6)	0 (0)	0.036	<0.0001	0.0047
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY	153	8 (5.2)	8 (5.2)	0 (0)	0.035	<0.0001	0.0047
GO RESPONSE TO STARVATION	154	8 (5.2)	8 (5.2)	0 (0)	0.035	<0.0001	0.0047
GO POSITIVE REGULATION OF NEURON DEATH	67	5 (7.5)	5 (7.5)	0 (0)	0.035	<0.0001	0.0047
GO REGULATION OF DNA TEMPLATED TRANSCRIPTION IN RE...	67	5 (7.5)	5 (7.5)	0 (0)	0.035	<0.0001	0.0047
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	12	3 (25)	3 (25)	0 (0)	0.033	<0.0001	0.0047
GO REGULATION OF VIRAL GENOME REPLICATION	75	5 (6.7)	5 (6.7)	0 (0)	0.033	<0.0001	0.0047
GO REGULATION OF TYPE I INTERFERON PRODUCTION	111	6 (5.4)	6 (5.4)	0 (0)	0.032	<0.0001	0.0047
GO POSITIVE REGULATION OF NEURON APOPTOTIC PROCESS	47	4 (8.5)	4 (8.5)	0 (0)	0.032	<0.0001	0.0047
GO NEGATIVE REGULATION OF VIRAL GENOME REPLICATION	49	4 (8.2)	4 (8.2)	0 (0)	0.032	<0.0001	0.0047
GO RESPONSE TO MUSCLE STRETCH	19	3 (15.8)	3 (15.8)	0 (0)	0.031	<0.0001	0.0047
GO NEGATIVE REGULATION OF VIRAL PROCESS	89	5 (5.6)	5 (5.6)	0 (0)	0.030	<0.0001	0.0047
GO CELLULAR RESPONSE TO EXTERNAL STIMULUS	265	10 (3.8)	10 (3.8)	0 (0)	0.030	<0.0001	0.0047
GO CELLULAR RESPONSE TO BIOTIC STIMULUS	162	7 (4.3)	7 (4.3)	0 (0)	0.029	<0.0001	0.0047
GO APOPTOTIC MITOCHONDRIAL CHANGES	58	4 (6.9)	4 (6.9)	0 (0)	0.029	<0.0001	0.0047
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	23	3 (13)	3 (13)	0 (0)	0.029	<0.0001	0.0047
GO IMMUNE EFFECTOR PROCESS	455	15 (3.3)	15 (3.3)	0 (0)	0.029	<0.0001	0.0047

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO RESPONSE TO MECHANICAL STIMULUS	211	8 (3.8)	8 (3.8)	0 (0)	0.028	<0.0001	0.0047
GO RESPONSE TO DSRNA	72	4 (5.6)	4 (5.6)	0 (0)	0.027	<0.0001	0.0047
GO CELLULAR RESPONSE TO EXTRACELLULAR STIMULUS	188	7 (3.7)	7 (3.7)	0 (0)	0.027	<0.0001	0.0047
GO NEGATIVE REGULATION OF MULTI ORGANISM PROCESS	151	6 (4)	6 (4)	0 (0)	0.026	<0.0001	0.0047
GO CELL CYCLE ARREST	154	6 (3.9)	6 (3.9)	0 (0)	0.026	<0.0001	0.0047
GO RESPONSE TO MOLECULE OF BACTERIAL ORIGIN	320	10 (3.1)	10 (3.1)	0 (0)	0.025	<0.0001	0.0047
GO DEFENSE RESPONSE TO OTHER ORGANISM	483	14 (2.9)	14 (2.9)	0 (0)	0.025	<0.0001	0.0047
GO RESPONSE TO BIOTIC STIMULUS	862	23 (2.7)	23 (2.7)	0 (0)	0.025	<0.0001	0.0047
GO APOPTOTIC SIGNALING PATHWAY	291	9 (3.1)	9 (3.1)	0 (0)	0.025	<0.0001	0.0047
GO NEGATIVE REGULATION OF CYTOKINE PRODUCTION	209	7 (3.3)	7 (3.3)	0 (0)	0.025	<0.0001	0.0047
GO RESPONSE TO CYTOKINE	711	19 (2.7)	19 (2.7)	0 (0)	0.025	<0.0001	0.0047
GO NEGATIVE REGULATION OF BINDING	131	5 (3.8)	5 (3.8)	0 (0)	0.024	<0.0001	0.0047
GO REGULATION OF VASCULATURE DEVELOPMENT	233	7 (3)	7 (3)	0 (0)	0.023	<0.0001	0.0047
GO CELLULAR RESPONSE TO CYTOKINE STIMULUS	603	15 (2.5)	15 (2.5)	0 (0)	0.022	<0.0001	0.0047
GO NEGATIVE REGULATION OF PHOSPHORYLATION	423	11 (2.6)	11 (2.6)	0 (0)	0.022	<0.0001	0.0047
GO REGULATION OF BINDING	284	8 (2.8)	8 (2.8)	0 (0)	0.022	<0.0001	0.0047
GO REGULATION OF CYTOKINE PRODUCTION	560	14 (2.5)	14 (2.5)	0 (0)	0.022	<0.0001	0.0047
GO RESPONSE TO EXTRACELLULAR STIMULUS	442	11 (2.5)	11 (2.5)	0 (0)	0.021	<0.0001	0.0047
GO CYTOKINE MEDIATED SIGNALING PATHWAY	449	11 (2.4)	11 (2.4)	0 (0)	0.021	<0.0001	0.0047
GO REGULATION OF INNATE IMMUNE RESPONSE	357	9 (2.5)	9 (2.5)	0 (0)	0.021	<0.0001	0.0047
GO RESPONSE TO BACTERIUM	504	12 (2.4)	12 (2.4)	0 (0)	0.021	<0.0001	0.0047
GO POSITIVE REGULATION OF CELL DEATH	606	14 (2.3)	14 (2.3)	0 (0)	0.021	<0.0001	0.0047

Table 31: Enriched MSigDB Biological Processes (RNA-Seq, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	19 (10.1)	19 (10.1)	0 (0)	0.075	<0.0001	0.0019
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	19 (9.5)	19 (9.5)	0 (0)	0.072	<0.0001	0.0019
GSE36891 POLYIC TLR3 VS PAM TLR2 STIM PERITONEAL M...	146	14 (9.6)	14 (9.6)	0 (0)	0.065	<0.0001	0.0019
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	17 (8.5)	17 (8.5)	0 (0)	0.064	<0.0001	0.0019
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	16 (8.5)	16 (8.5)	0 (0)	0.063	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	16 (8.4)	16 (8.4)	0 (0)	0.062	<0.0001	0.0019
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	16 (8.4)	16 (8.4)	0 (0)	0.062	<0.0001	0.0019
GSE2706 UNSTIM VS 2H LPS DC DN	192	16 (8.3)	16 (8.3)	0 (0)	0.062	<0.0001	0.0019
GSE32986 CURDLAN HIGHDOSE VS GMCSF AND CURDLAN HIG...	202	16 (7.9)	16 (7.9)	0 (0)	0.060	<0.0001	0.0019
GSE9988 LOW LPS VS VEHICLE TREATED MONOCYTE UP	189	15 (7.9)	15 (7.9)	0 (0)	0.059	<0.0001	0.0019
GSE2706 UNSTIM VS 2H R848 DC DN	190	15 (7.9)	15 (7.9)	0 (0)	0.058	<0.0001	0.0019
GSE37605 TREG VS TCONV NOD FOXP3 FUSION GFP UP	139	12 (8.6)	12 (8.6)	0 (0)	0.057	<0.0001	0.0019
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	15 (7.5)	15 (7.5)	0 (0)	0.056	<0.0001	0.0019
GSE2706 R848 VS LPS 2H STIM DC DN	182	14 (7.7)	13 (7.1)	1 (0.5)	0.056	<0.0001	0.0019
GSE36891 UNSTIM VS POLYIC TLR3 STIM PERITONEAL MAC...	146	12 (8.2)	12 (8.2)	0 (0)	0.056	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 4H DN	185	14 (7.6)	14 (7.6)	0 (0)	0.055	<0.0001	0.0019
GSE9988 LOW LPS VS CTRL TREATED MONOCYTE UP	189	14 (7.4)	14 (7.4)	0 (0)	0.054	<0.0001	0.0019
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	14 (7.1)	14 (7.1)	0 (0)	0.053	<0.0001	0.0019

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	14 (7.1)	14 (7.1)	0 (0)	0.053	<0.0001	0.0019
GSE2770 UNTREATED VS IL12 TREATED ACT CD4 TCELL 6H...	200	14 (7)	14 (7)	0 (0)	0.052	<0.0001	0.0019
GSE9988 LPS VS CTRL TREATED MONOCYTE UP	189	13 (6.9)	13 (6.9)	0 (0)	0.050	<0.0001	0.0019
GSE2706 UNSTIM VS 8H LPS AND R848 DC DN	194	13 (6.7)	13 (6.7)	0 (0)	0.049	<0.0001	0.0019
GSE2706 UNSTIM VS 8H R848 DC DN	196	13 (6.6)	13 (6.6)	0 (0)	0.049	<0.0001	0.0019
GSE34392 ST2 KO VS WT DAY8 LCMV EFFECTOR CD8 TCELL...	200	13 (6.5)	13 (6.5)	0 (0)	0.048	<0.0001	0.0019
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	13 (6.5)	13 (6.5)	0 (0)	0.048	<0.0001	0.0019
GSE22886 CTRL VS LPS 24H DC DN	201	13 (6.5)	13 (6.5)	0 (0)	0.048	<0.0001	0.0019
GSE26343 UNSTIM VS LPS STIM NFAT5 KO MACROPHAGE DN	202	13 (6.4)	13 (6.4)	0 (0)	0.048	<0.0001	0.0019
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 18H DN	186	12 (6.5)	12 (6.5)	0 (0)	0.047	<0.0001	0.0019
GSE9988 ANTI TREM1 VS CTRL TREATED MONOCYTES UP	192	12 (6.2)	12 (6.2)	0 (0)	0.046	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 6H DN	197	12 (6.1)	12 (6.1)	0 (0)	0.045	<0.0001	0.0019
GSE14000 UNSTIM VS 4H LPS DC TRANSLATED RNA DN	198	12 (6.1)	12 (6.1)	0 (0)	0.045	<0.0001	0.0019
GSE21063 CTRL VS ANTI IGM STIM BCELL 8H UP	151	10 (6.6)	10 (6.6)	0 (0)	0.045	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 2H DN	175	11 (6.3)	11 (6.3)	0 (0)	0.045	<0.0001	0.0019
GSE14000 UNSTIM VS 4H LPS DC DN	199	12 (6)	12 (6)	0 (0)	0.045	<0.0001	0.0019
GSE41978 ID2 KO VS BIM KO KLRL1 LOW EFFECTOR CD8 T...	199	12 (6)	12 (6)	0 (0)	0.045	<0.0001	0.0019
GSE42021 TREG VS TCONV PLN UP	199	12 (6)	12 (6)	0 (0)	0.045	<0.0001	0.0019
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	12 (6)	12 (6)	0 (0)	0.044	<0.0001	0.0019
GSE27241 CTRL VS DIGOXIN TREATED CD4 TCELL IN TH17...	159	10 (6.3)	10 (6.3)	0 (0)	0.043	<0.0001	0.0019
GSE37605 C57BL6 VS NOD FOXP3 FUSION GFP TREG DN	187	11 (5.9)	11 (5.9)	0 (0)	0.043	<0.0001	0.0019
GSE9988 ANTI TREM1 AND LPS VS VEHICLE TREATED MONO...	188	11 (5.9)	11 (5.9)	0 (0)	0.043	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 16H DN	189	11 (5.8)	11 (5.8)	0 (0)	0.042	<0.0001	0.0019
GSE3920 IFNA VS IFNG TREATED ENDOTHELIAL CELL UP	167	10 (6)	10 (6)	0 (0)	0.042	<0.0001	0.0019
GSE8515 CTRL VS IL1 4H STIM MAC DN	192	11 (5.7)	11 (5.7)	0 (0)	0.042	<0.0001	0.0019
GSE42724 NAIVE BCELL VS PLASMA BLAST UP	193	11 (5.7)	11 (5.7)	0 (0)	0.042	<0.0001	0.0019
GSE42021 CD24HI VS CD24LOW TREG THYMUS DN	198	11 (5.6)	11 (5.6)	0 (0)	0.041	<0.0001	0.0019
GSE42021 CD24HI TREG VS CD24HI TCONV THYMUS DN	199	11 (5.5)	11 (5.5)	0 (0)	0.041	<0.0001	0.0019
GSE37301 MULTIPOTENT PROGENITOR VS GRAN MONO PROGE...	200	11 (5.5)	11 (5.5)	0 (0)	0.041	<0.0001	0.0019
GSE42021 TREG PLN VS CD24HI TREG THYMUS UP	201	11 (5.5)	11 (5.5)	0 (0)	0.040	<0.0001	0.0019
GSE9006 HEALTHY VS TYPE 1 DIABETES PBMC 4MONTH POS...	201	11 (5.5)	11 (5.5)	0 (0)	0.040	<0.0001	0.0019
GSE17974 IL4 AND ANTI IL12 VS UNTREATED 24H ACT CD...	182	10 (5.5)	10 (5.5)	0 (0)	0.039	<0.0001	0.0019

Table 32: Enriched MSigDB Immunological Signatures (RNA-Seq, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG RIG I LIKE RECEPTOR SIGNALING PATHWAY	71	6 (8.5)	6 (8.5)	0 (0)	0.041	<0.0001	0.0062
KEGG P53 SIGNALING PATHWAY	68	5 (7.4)	5 (7.4)	0 (0)	0.035	<0.0001	0.0062
KEGG MAPK SIGNALING PATHWAY	267	9 (3.4)	9 (3.4)	0 (0)	0.026	<0.0001	0.0062
KEGG NOD LIKE RECEPTOR SIGNALING PATHWAY	62	4 (6.5)	4 (6.5)	0 (0)	0.029	0.0005	0.0232
KEGG TOLL LIKE RECEPTOR SIGNALING PATHWAY	102	5 (4.9)	5 (4.9)	0 (0)	0.028	0.0009	0.0335

Table 33: Enriched MSigDB KEGG Pathways (RNA-Seq, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERASE...	315	11 (3.5)	10 (3.2)	1 (0.3)	0.029	<0.0001	0.0133
GO CYTOKINE ACTIVITY	218	7 (3.2)	7 (3.2)	0 (0)	0.024	<0.0001	0.0133
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERASE...	226	7 (3.1)	7 (3.1)	0 (0)	0.023	<0.0001	0.0133
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	8 (2.4)	8 (2.4)	0 (0)	0.020	<0.0001	0.0133
GO CORE PROMOTER PROXIMAL REGION DNA BINDING	371	8 (2.2)	8 (2.2)	0 (0)	0.018	<0.0001	0.0133
GO RNA POLYMERASE II TRANSCRIPTION FACTOR ACTIVITY...	629	12 (1.9)	11 (1.7)	1 (0.2)	0.017	<0.0001	0.0133
GO DOUBLE STRANDED DNA BINDING	765	13 (1.7)	12 (1.6)	1 (0.1)	0.016	<0.0001	0.0133
GO CXCR CHEMOKINE RECEPTOR BINDING	16	3 (18.8)	3 (18.8)	0 (0)	0.032	0.0002	0.0186
GO REGULATORY REGION NUCLEIC ACID BINDING	818	12 (1.5)	11 (1.3)	1 (0.1)	0.013	0.0002	0.0186
GO SEQUENCE SPECIFIC DNA BINDING	1033	14 (1.4)	13 (1.3)	1 (0.1)	0.013	0.0002	0.0186
GO TRANSCRIPTION COREPRESSOR ACTIVITY	219	6 (2.7)	6 (2.7)	0 (0)	0.020	0.0003	0.0214
GO TRANSCRIPTION FACTOR ACTIVITY PROTEIN BINDING	584	9 (1.5)	9 (1.5)	0 (0)	0.014	0.0003	0.0214
GO RECEPTOR BINDING	1454	15 (1)	15 (1)	0 (0)	0.010	0.0003	0.0214
GO TRANSCRIPTIONAL REPRESSOR ACTIVITY RNA POLYMERA...	53	3 (5.7)	3 (5.7)	0 (0)	0.023	0.0007	0.0464
GO TRANSCRIPTION FACTOR BINDING	524	8 (1.5)	8 (1.5)	0 (0)	0.013	0.0008	0.0495
GO CYTOKINE RECEPTOR BINDING	270	6 (2.2)	6 (2.2)	0 (0)	0.017	0.001	0.0581
GO CHEMOKINE ACTIVITY	47	3 (6.4)	3 (6.4)	0 (0)	0.024	0.0011	0.0601
GO NUCLEIC ACID BINDING TRANSCRIPTION FACTOR ACTIV...	1195	12 (1)	11 (0.9)	1 (0.1)	0.009	0.0012	0.0619
GO CHEMOKINE RECEPTOR BINDING	56	3 (5.4)	3 (5.4)	0 (0)	0.022	0.0014	0.065
GO DOUBLE STRANDED RNA BINDING	64	3 (4.7)	3 (4.7)	0 (0)	0.021	0.0014	0.065
GO MAP KINASE PHOSPHATASE ACTIVITY	14	2 (14.3)	2 (14.3)	0 (0)	0.021	0.002	0.0885

Table 34: Enriched MSigDB Molecular Functions (RNA-Seq, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME INTERFERON ALPHA BETA SIGNALING	62	7 (11.3)	7 (11.3)	0 (0)	0.051	<0.0001	0.0084
REACTOME ACTIVATION OF GENES BY ATF4	24	5 (20.8)	5 (20.8)	0 (0)	0.050	<0.0001	0.0084
REACTOME PERK REGULATED GENE EXPRESSION	27	5 (18.5)	5 (18.5)	0 (0)	0.048	<0.0001	0.0084
REACTOME RIG I MDA5 MEDIATED INDUCTION OF IFN ALPH...	72	7 (9.7)	7 (9.7)	0 (0)	0.048	<0.0001	0.0084
REACTOME UNFOLDED PROTEIN RESPONSE	77	6 (7.8)	6 (7.8)	0 (0)	0.039	<0.0001	0.0084
REACTOME INTERFERON SIGNALING	153	8 (5.2)	8 (5.2)	0 (0)	0.035	<0.0001	0.0084
REACTOME TRAF6 MEDIATED NFKB ACTIVATION	21	3 (14.3)	3 (14.3)	0 (0)	0.030	<0.0001	0.0084
REACTOME CYTOKINE SIGNALING IN IMMUNE SYSTEM	263	9 (3.4)	9 (3.4)	0 (0)	0.027	<0.0001	0.0084
REACTOME DIABETES PATHWAYS	129	7 (5.4)	7 (5.4)	0 (0)	0.034	0.0002	0.0135
REACTOME INNATE IMMUNE SYSTEM	269	9 (3.3)	9 (3.3)	0 (0)	0.026	0.0002	0.0135
REACTOME IMMUNE SYSTEM	895	16 (1.8)	16 (1.8)	0 (0)	0.017	0.0004	0.0245
REACTOME TRAF6 MEDIATED IRF7 ACTIVATION	30	3 (10)	3 (10)	0 (0)	0.028	0.0014	0.0778
REACTOME NEGATIVE REGULATORS OF RIG I MDA5 SIGNALI...	30	3 (10)	3 (10)	0 (0)	0.028	0.0015	0.0778

Table 35: Enriched MSigDB Reactome Pathways (RNA-Seq, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO RESPONSE TO EXTERNAL STIMULUS	1797	119 (6.6)	95 (5.3)	24 (1.3)	0.048	<0.0001	0.0067
GO RESPONSE TO BIOTIC STIMULUS	862	73 (8.5)	61 (7.1)	12 (1.4)	0.046	<0.0001	0.0067
GO RESPONSE TO OXYGEN CONTAINING COMPOUND	1383	90 (6.5)	62 (4.5)	28 (2)	0.043	<0.0001	0.0067
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	109 (5.9)	87 (4.7)	22 (1.2)	0.043	<0.0001	0.0067
GO IMMUNE SYSTEM PROCESS	1936	111 (5.7)	90 (4.6)	21 (1.1)	0.043	<0.0001	0.0067
GO IMMUNE RESPONSE	1057	75 (7.1)	64 (6.1)	11 (1)	0.042	<0.0001	0.0067
GO DEFENSE RESPONSE	1200	80 (6.7)	67 (5.6)	13 (1.1)	0.042	<0.0001	0.0067
GO RESPONSE TO CYTOKINE	711	57 (8)	52 (7.3)	5 (0.7)	0.040	<0.0001	0.0067
GO RESPONSE TO NITROGEN COMPOUND	862	62 (7.2)	47 (5.5)	15 (1.7)	0.039	<0.0001	0.0067
GO REGULATION OF INTRACELLULAR SIGNAL TRANSDUCTION	1659	91 (5.5)	75 (4.5)	16 (1)	0.039	<0.0001	0.0067
GO POSITIVE REGULATION OF RESPONSE TO STIMULUS	1894	98 (5.2)	77 (4.1)	21 (1.1)	0.038	<0.0001	0.0067
GO INTRACELLULAR SIGNAL TRANSDUCTION	1568	86 (5.5)	77 (4.9)	9 (0.6)	0.038	<0.0001	0.0067
GO REGULATION OF CELL DEATH	1473	82 (5.6)	70 (4.8)	12 (0.8)	0.038	<0.0001	0.0067
GO CELLULAR RESPONSE TO OXYGEN CONTAINING COMPOUND	802	57 (7.1)	37 (4.6)	20 (2.5)	0.037	<0.0001	0.0067
GO CELLULAR RESPONSE TO CYTOKINE STIMULUS	603	49 (8.1)	44 (7.3)	5 (0.8)	0.037	<0.0001	0.0067
GO RESPONSE TO LIPID	888	58 (6.5)	41 (4.6)	17 (1.9)	0.036	<0.0001	0.0067
GO POSITIVE REGULATION OF GENE EXPRESSION	1732	87 (5)	78 (4.5)	9 (0.5)	0.036	<0.0001	0.0067
GO REGULATION OF IMMUNE SYSTEM PROCESS	1365	74 (5.4)	61 (4.5)	13 (1)	0.036	<0.0001	0.0067
GO RESPONSE TO ENDOGENOUS STIMULUS	1454	77 (5.3)	55 (3.8)	22 (1.5)	0.036	<0.0001	0.0067
GO REGULATION OF CELL PROLIFERATION	1493	78 (5.2)	59 (4)	19 (1.3)	0.035	<0.0001	0.0067
GO NEGATIVE REGULATION OF MULTICELLULAR ORGANISMAL...	981	60 (6.1)	45 (4.6)	15 (1.5)	0.035	<0.0001	0.0067
GO RESPONSE TO VIRUS	247	35 (14.2)	33 (13.4)	2 (0.8)	0.035	<0.0001	0.0067
GO POSITIVE REGULATION OF CELL COMMUNICATION	1530	78 (5.1)	63 (4.1)	15 (1)	0.035	<0.0001	0.0067
GO CELL DEATH	1002	60 (6)	51 (5.1)	9 (0.9)	0.035	<0.0001	0.0067
GO IMMUNE EFFECTOR PROCESS	455	41 (9)	34 (7.5)	7 (1.5)	0.034	<0.0001	0.0067
GO RESPONSE TO ORGANIC CYCLIC COMPOUND	918	56 (6.1)	44 (4.8)	12 (1.3)	0.034	<0.0001	0.0067
GO INNATE IMMUNE RESPONSE	591	45 (7.6)	40 (6.8)	5 (0.8)	0.034	<0.0001	0.0067
GO RESPONSE TO ABIOTIC STIMULUS	1026	59 (5.8)	46 (4.5)	13 (1.3)	0.034	<0.0001	0.0067
GO POSITIVE REGULATION OF IMMUNE SYSTEM PROCESS	833	52 (6.2)	44 (5.3)	8 (1)	0.033	<0.0001	0.0067
GO RESPONSE TO MOLECULE OF BACTERIAL ORIGIN	320	35 (10.9)	29 (9.1)	6 (1.9)	0.033	<0.0001	0.0067
GO REGULATION OF RESPONSE TO EXTERNAL STIMULUS	925	54 (5.8)	39 (4.2)	15 (1.6)	0.033	<0.0001	0.0067
GO RESPONSE TO BACTERIUM	504	39 (7.7)	32 (6.3)	7 (1.4)	0.031	<0.0001	0.0067
GO NEGATIVE REGULATION OF CELL DEATH	874	50 (5.7)	43 (4.9)	7 (0.8)	0.031	<0.0001	0.0067
GO DEFENSE RESPONSE TO OTHER ORGANISM	483	38 (7.9)	31 (6.4)	7 (1.4)	0.031	<0.0001	0.0067
GO DEFENSE RESPONSE TO VIRUS	164	28 (17.1)	27 (16.5)	1 (0.6)	0.030	<0.0001	0.0067
GO NEGATIVE REGULATION OF CELL PROLIFERATION	642	42 (6.5)	32 (5)	10 (1.6)	0.030	<0.0001	0.0067
GO CYTOKINE MEDIATED SIGNALING PATHWAY	449	36 (8)	34 (7.6)	2 (0.4)	0.030	<0.0001	0.0067
GO INFLAMMATORY RESPONSE	452	36 (8)	30 (6.6)	6 (1.3)	0.030	<0.0001	0.0067
GO REGULATION OF CYTOKINE PRODUCTION	560	39 (7)	36 (6.4)	3 (0.5)	0.030	<0.0001	0.0067
GO RESPONSE TO PEPTIDE	406	32 (7.9)	25 (6.2)	7 (1.7)	0.028	<0.0001	0.0067
GO REGULATION OF INNATE IMMUNE RESPONSE	357	30 (8.4)	27 (7.6)	3 (0.8)	0.027	<0.0001	0.0067
GO POSITIVE REGULATION OF DEFENSE RESPONSE	362	29 (8)	25 (6.9)	4 (1.1)	0.026	<0.0001	0.0067
GO POSITIVE REGULATION OF LOCOMOTION	420	29 (6.9)	24 (5.7)	5 (1.2)	0.025	<0.0001	0.0067
GO NEGATIVE REGULATION OF CYTOKINE PRODUCTION	209	23 (11)	21 (10)	2 (1)	0.024	<0.0001	0.0067
GO CELLULAR RESPONSE TO BIOTIC STIMULUS	162	20 (12.3)	16 (9.9)	4 (2.5)	0.022	<0.0001	0.0067
GO CELLULAR RESPONSE TO EXTERNAL STIMULUS	265	22 (8.3)	21 (7.9)	1 (0.4)	0.021	<0.0001	0.0067
GO POSITIVE REGULATION OF RESPONSE TO EXTERNAL STI...	295	22 (7.5)	20 (6.8)	2 (0.7)	0.021	<0.0001	0.0067

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO REGULATION OF TYPE I INTERFERON PRODUCTION	111	16 (14.4)	16 (14.4)	0 (0)	0.018	<0.0001	0.0067
GO NEGATIVE REGULATION OF RESPONSE TO WOUNDING	155	16 (10.3)	10 (6.5)	6 (3.9)	0.017	<0.0001	0.0067
GO RESPONSE TO CARBOHYDRATE	167	16 (9.6)	8 (4.8)	8 (4.8)	0.017	<0.0001	0.0067

Table 36: Enriched MSigDB Biological Processes (RNA-Seq, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO EXTRACELLULAR SPACE	1342	61 (4.5)	37 (2.8)	24 (1.8)	0.029	<0.0001	0.0584

Table 37: Enriched MSigDB Cellular Components (RNA-Seq, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	53 (27.7)	52 (27.2)	1 (0.5)	0.057	<0.0001	0.0015
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	52 (27.5)	51 (27)	1 (0.5)	0.056	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 6H DN	197	50 (25.4)	48 (24.4)	2 (1)	0.054	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	50 (25.3)	49 (24.7)	1 (0.5)	0.053	<0.0001	0.0015
GSE2706 UNSTIM VS 2H LPS DC DN	192	49 (25.5)	49 (25.5)	0 (0)	0.053	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 4H DN	185	48 (25.9)	45 (24.3)	3 (1.6)	0.052	<0.0001	0.0015
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	48 (23.9)	48 (23.9)	0 (0)	0.051	<0.0001	0.0015
GSE14000 UNSTIM VS 4H LPS DC DN	199	47 (23.6)	45 (22.6)	2 (1)	0.050	<0.0001	0.0015
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	47 (23.4)	47 (23.4)	0 (0)	0.050	<0.0001	0.0015
GSE22886 CTRL VS LPS 24H DC DN	201	47 (23.4)	44 (21.9)	3 (1.5)	0.050	<0.0001	0.0015
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	45 (23.9)	44 (23.4)	1 (0.5)	0.048	<0.0001	0.0015
GSE42724 NAIVE BCELL VS PLASMABLAST UP	193	45 (23.3)	43 (22.3)	2 (1)	0.048	<0.0001	0.0015
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	45 (22.8)	44 (22.3)	1 (0.5)	0.048	<0.0001	0.0015
GSE42021 TREG VS TCONV PLN UP	199	45 (22.6)	44 (22.1)	1 (0.5)	0.048	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 16H DN	189	44 (23.3)	43 (22.8)	1 (0.5)	0.047	<0.0001	0.0015
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	44 (22)	43 (21.5)	1 (0.5)	0.047	<0.0001	0.0015
GSE2706 UNSTIM VS 2H R848 DC DN	190	43 (22.6)	43 (22.6)	0 (0)	0.046	<0.0001	0.0015
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 6H DN	195	43 (22.1)	42 (21.5)	1 (0.5)	0.046	<0.0001	0.0015
GSE14000 UNSTIM VS 4H LPS DC TRANSLATED RNA DN	198	43 (21.7)	42 (21.2)	1 (0.5)	0.046	<0.0001	0.0015
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	42 (21.1)	41 (20.6)	1 (0.5)	0.044	<0.0001	0.0015
GSE37533 PPARG1 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	199	42 (21.1)	41 (20.6)	1 (0.5)	0.044	<0.0001	0.0015
GSE21546 WT VS SAP1A KO DP THYMOCYTES UP	194	41 (21.1)	41 (21.1)	0 (0)	0.044	<0.0001	0.0015
GSE13484 UNSTIM VS YF17D VACCINE STIM PBMC DN	199	41 (20.6)	39 (19.6)	2 (1)	0.043	<0.0001	0.0015
GSE41978 ID2 KO VS BIM KO KLRG1 LOW EFFECTOR CD8 T...	199	41 (20.6)	41 (20.6)	0 (0)	0.043	<0.0001	0.0015
GSE37533 PPARG2 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	198	40 (20.2)	40 (20.2)	0 (0)	0.042	<0.0001	0.0015
GSE42021 CD24HI VS CD24INT TREG THYMUS DN	198	40 (20.2)	39 (19.7)	1 (0.5)	0.042	<0.0001	0.0015
GSE37533 PPARG1 FOXP3 VS PPARG2 FOXP3 TRANSDUCED C...	199	40 (20.1)	40 (20.1)	0 (0)	0.042	<0.0001	0.0015
GSE9988 LOW LPS VS VEHICLE TREATED MONOCYTE UP	189	39 (20.6)	39 (20.6)	0 (0)	0.042	<0.0001	0.0015

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	39 (20.4)	39 (20.4)	0 (0)	0.042	<0.0001	0.0015
GSE13485 DAY3 VS DAY7 YF17D VACCINE PBMC DN	196	39 (19.9)	38 (19.4)	1 (0.5)	0.041	<0.0001	0.0015
GSE2706 UNSTIM VS 8H R848 DC DN	196	39 (19.9)	38 (19.4)	1 (0.5)	0.041	<0.0001	0.0015
GSE34392 ST2 KO VS WT DAY8 LCMV EFFECTOR CD8 TCELL...	200	39 (19.5)	35 (17.5)	4 (2)	0.041	<0.0001	0.0015
GSE13485 CTRL VS DAY7 YF17D VACCINE PBMC DN	202	39 (19.3)	37 (18.3)	2 (1)	0.041	<0.0001	0.0015
GSE32986 CURDLAN HIGHDOSE VS GMCSF AND CURDLAN HIG...	202	39 (19.3)	36 (17.8)	3 (1.5)	0.041	<0.0001	0.0015
GSE7219 WT VS NIK NFKB2 KO DC UP	184	38 (20.7)	36 (19.6)	2 (1.1)	0.041	<0.0001	0.0015
GSE9988 LOW LPS VS CTRL TREATED MONOCYTE UP	189	38 (20.1)	38 (20.1)	0 (0)	0.041	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 12H DN	195	38 (19.5)	38 (19.5)	0 (0)	0.040	<0.0001	0.0015
GSE36891 POLYIC TLR3 VS PAM TLR2 STIM PERITONEAL M...	146	36 (24.7)	36 (24.7)	0 (0)	0.040	<0.0001	0.0015
GSE42021 CD24HI VS CD24LOW TCONV THYMUS DN	199	38 (19.1)	36 (18.1)	2 (1)	0.040	<0.0001	0.0015
GSE9988 ANTI TREM1 AND LPS VS CTRL TREATED MONOCYT...	190	37 (19.5)	36 (18.9)	1 (0.5)	0.039	<0.0001	0.0015
GSE2706 UNSTIM VS 8H LPS AND R848 DC DN	194	37 (19.1)	35 (18)	2 (1)	0.039	<0.0001	0.0015
GSE42021 TREG PLN VS TREG PRECURSORS THYMUS DN	198	37 (18.7)	36 (18.2)	1 (0.5)	0.039	<0.0001	0.0015
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	37 (18.5)	36 (18)	1 (0.5)	0.039	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 14H DN	184	36 (19.6)	36 (19.6)	0 (0)	0.038	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 18H DN	189	36 (19)	35 (18.5)	1 (0.5)	0.038	<0.0001	0.0015
GSE29617 CTRL VS DAY7 TIV FLU VACCINE PBMC 2008 UP	190	36 (18.9)	35 (18.4)	1 (0.5)	0.038	<0.0001	0.0015
GSE42021 TREG PLN VS CD24INT TREG THYMUS DN	200	36 (18)	36 (18)	0 (0)	0.038	<0.0001	0.0015
GSE37533 PPARG1 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	198	35 (17.7)	33 (16.7)	2 (1)	0.037	<0.0001	0.0015
GSE13485 DAY1 VS DAY7 YF17D VACCINE PBMC DN	199	35 (17.6)	34 (17.1)	1 (0.5)	0.037	<0.0001	0.0015
GSE14769 UNSTIM VS 120MIN LPS BMDM DN	200	35 (17.5)	33 (16.5)	2 (1)	0.037	<0.0001	0.0015

Table 38: Enriched MSigDB Immunological Signatures (RNA-Seq, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG CYTOKINE CYTOKINE RECEPTOR INTERACTION	263	20 (7.6)	17 (6.5)	3 (1.1)	0.019	<0.0001	0.0062
KEGG RIG I LIKE RECEPTOR SIGNALING PATHWAY	71	12 (16.9)	12 (16.9)	0 (0)	0.014	<0.0001	0.0062
KEGG NOD LIKE RECEPTOR SIGNALING PATHWAY	62	11 (17.7)	11 (17.7)	0 (0)	0.013	<0.0001	0.0062
KEGG CYTOSOLIC DNA SENSING PATHWAY	55	8 (14.5)	8 (14.5)	0 (0)	0.010	0.0002	0.0093
KEGG TOLL LIKE RECEPTOR SIGNALING PATHWAY	102	12 (11.8)	11 (10.8)	1 (1)	0.014	0.0007	0.026
KEGG CHEMOKINE SIGNALING PATHWAY	187	16 (8.6)	14 (7.5)	2 (1.1)	0.017	0.0013	0.0403
KEGG MAPK SIGNALING PATHWAY	267	20 (7.5)	18 (6.7)	2 (0.7)	0.019	0.004	0.0856
KEGG EPITHELIAL CELL SIGNALING IN HELICOBACTER PYL...	68	8 (11.8)	7 (10.3)	1 (1.5)	0.009	0.0043	0.0856
KEGG ADIPOCYTOKINE SIGNALING PATHWAY	68	8 (11.8)	8 (11.8)	0 (0)	0.009	0.0046	0.0856
KEGG LEISHMANIA INFECTION	69	8 (11.6)	8 (11.6)	0 (0)	0.009	0.0045	0.0856

Table 39: Enriched MSigDB KEGG Pathways (RNA-Seq, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO RECEPTOR BINDING	1454	72 (5)	53 (3.6)	19 (1.3)	0.033	<0.0001	0.0155
GO CYTOKINE ACTIVITY	218	21 (9.6)	19 (8.7)	2 (0.9)	0.021	<0.0001	0.0155
GO CYTOKINE RECEPTOR BINDING	270	19 (7)	17 (6.3)	2 (0.7)	0.018	<0.0001	0.0155
GO CHEMOKINE ACTIVITY	47	8 (17)	8 (17)	0 (0)	0.010	<0.0001	0.0155
GO CHEMOKINE RECEPTOR BINDING	56	8 (14.3)	8 (14.3)	0 (0)	0.010	<0.0001	0.0155
GO CXCR CHEMOKINE RECEPTOR BINDING	16	7 (43.8)	7 (43.8)	0 (0)	0.009	<0.0001	0.0155
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	23 (7)	21 (6.4)	2 (0.6)	0.021	0.0007	0.0929

Table 40: Enriched MSigDB Molecular Functions (RNA-Seq, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME IMMUNE SYSTEM	895	58 (6.5)	51 (5.7)	7 (0.8)	0.036	<0.0001	0.0084
REACTOME CYTOKINE SIGNALING IN IMMUNE SYSTEM	263	33 (12.5)	30 (11.4)	3 (1.1)	0.033	<0.0001	0.0084
REACTOME INTERFERON SIGNALING	153	25 (16.3)	25 (16.3)	0 (0)	0.027	<0.0001	0.0084
REACTOME INTERFERON ALPHA BETA SIGNALING	62	15 (24.2)	15 (24.2)	0 (0)	0.018	<0.0001	0.0084
REACTOME RIG I MDA5 MEDIATED INDUCTION OF IFN ALPH...	72	14 (19.4)	14 (19.4)	0 (0)	0.017	<0.0001	0.0084
REACTOME INTERFERON GAMMA SIGNALING	59	11 (18.6)	11 (18.6)	0 (0)	0.013	<0.0001	0.0084
REACTOME CHEMOKINE RECEPTORS BIND CHEMOKINES	54	9 (16.7)	9 (16.7)	0 (0)	0.011	<0.0001	0.0084
REACTOME NEGATIVE REGULATORS OF RIG I MDA5 SIGNALI...	30	8 (26.7)	8 (26.7)	0 (0)	0.010	<0.0001	0.0084
REACTOME PEPTIDE LIGAND BINDING RECEPTORS	184	14 (7.6)	11 (6)	3 (1.6)	0.015	0.0005	0.0374
REACTOME INNATE IMMUNE SYSTEM	269	21 (7.8)	19 (7.1)	2 (0.7)	0.020	0.0006	0.0404
REACTOME TRAF6 MEDIATED NFkB ACTIVATION	21	5 (23.8)	5 (23.8)	0 (0)	0.006	0.0008	0.049
REACTOME ACTIVATION OF GENES BY ATF4	24	5 (20.8)	5 (20.8)	0 (0)	0.006	0.0015	0.0842
REACTOME GROWTH HORMONE RECEPTOR SIGNALING	24	5 (20.8)	4 (16.7)	1 (4.2)	0.006	0.0018	0.0933

Table 41: Enriched MSigDB Reactome Pathways (RNA-Seq, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Category/Chromosome	#Genes
mitochondrial ribosomal RNA (Mt_rRNA)	2
mitochondrial transfer RNA (Mt_tRNA)	22
ribosomal RNA (rRNA)	52
ribosomal RNA pseudogene (rRNA_pseudogene)	499
Total	575

Table 42: Number of excluded genes by gene type (RP).

	Min	Q1	Median	Mean	Q3	Max	SD	MAD	N
Total Mapped Reads [10^6]	0.16	0.53	1.51	2.30	3.01	9.32	2.40	1.73	40
Unmapped Reads [10^6]	0.04	0.11	0.53	0.81	1.09	4.24	0.87	0.65	40
Uniquely Mapped Reads [10^6]	0.12	0.35	1.06	1.78	2.29	7.94	1.95	1.20	40
Uniquely Mapped Reads [%]	54.10	70.30	74.35	73.79	78.45	87.50	8.07	6.15	40
Counted Fragments [10^6]	0.10	0.29	0.94	1.49	2.01	7.35	1.65	1.08	40
Uniquely Mapped Reads + Strand [10^6]	0.06	0.16	0.52	0.88	1.16	3.79	0.97	0.60	40
Uniquely Mapped Reads - Strand [10^6]	0.06	0.19	0.55	0.90	1.15	4.14	0.99	0.64	40
Median GC [%]	45.71	48.57	50.00	50.58	52.02	54.84	2.48	2.39	40
Mean GC [%]	46.64	49.11	50.99	51.06	52.52	54.99	2.31	2.52	40

Table 43: Summary human reference genome alignment statistics for study samples (RP, Huh7)

	Min	Q1	Median	Mean	Q3	Max	SD	MAD	N
Exon Tags [%]	71.17	94.71	97.52	94.68	98.36	99.43	6.82	1.48	40
Intron Tags [%]	0.47	1.39	2.11	4.82	4.67	26.87	6.37	1.29	40
Intergenic Tags [%]	0.10	0.25	0.31	0.50	0.62	1.96	0.46	0.19	40
CDS Exons Tags Per Kb	1.68	5.70	15.70	22.23	30.14	103.20	23.00	17.49	40
Intron Tags Per Kb	0.00	0.01	0.02	0.11	0.04	0.99	0.23	0.02	40
3' UTR Tags Per Kb	0.05	0.26	0.51	2.69	1.12	33.95	6.47	0.49	40
5' UTR Tags Per Kb	0.31	0.92	2.72	4.55	6.18	18.24	5.08	2.98	40
TSS upstream 10Kb Tags Per Kb	0.00	0.00	0.01	0.03	0.02	0.20	0.05	0.01	40
TES downstream 10Kb Tags Per Kb	0.00	0.00	0.01	0.04	0.01	0.35	0.07	0.01	40
Splicing Events [10^5]	0.13	0.35	1.24	1.72	2.31	9.43	1.96	1.36	40
Splicing Junctions [10^5]	0.08	0.15	0.26	0.28	0.38	0.68	0.16	0.17	40

Table 44: Summary human reference gene model alignment statistics for study samples (RP, Huh7)

	#Genes
Huh7	15096

Table 45: Number of genes that passed the low expression cut off (RP).

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	8.08	3.73	24.42	0.00	0.00	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	6.06	5.91	44.24	0.00	0.00	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	5.29	4.16	26.51	0.00	0.00	
ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	4.28	4.60	22.50	0.00	0.01	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	3.95	4.66	21.28	0.00	0.01	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	3.73	5.05	25.29	0.00	0.00	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	3.30	4.44	21.18	0.00	0.01	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	3.14	5.89	18.90	0.00	0.03	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	2.98	6.91	17.38	0.00	0.05	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	2.95	6.04	17.97	0.00	0.04	

Table 46: Genes differentially expressed at 24h PI compared to pre-treatment (RP, Huh7, cytosol). Sorted by descending absolute \log_2 fold change (Day 24 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	11.18	6.90	94.26	0.00	0.00	
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	protein coding	10.44	6.17	83.82	0.00	0.00	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	7.91	7.76	77.95	0.00	0.00	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	7.82	3.66	34.42	0.00	0.00	
ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	protein coding	7.75	3.71	23.00	0.00	0.00	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	7.53	6.36	71.29	0.00	0.00	
ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	protein coding	6.90	3.00	19.39	0.00	0.00	
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	6.88	6.94	67.21	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	6.83	5.10	51.90	0.00	0.00	
ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	protein coding	6.68	2.67	20.68	0.00	0.00	
ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	6.68	2.71	21.44	0.00	0.00	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	6.45	5.75	50.22	0.00	0.00	
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	protein coding	6.44	3.88	36.41	0.00	0.00	
ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]	protein coding	6.38	2.50	19.04	0.00	0.00	
ENSG00000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]	protein coding	-6.23	2.57	12.12	0.00	0.03	
ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	protein coding	6.22	2.43	15.89	0.00	0.01	
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	protein coding	6.21	3.67	30.79	0.00	0.00	
ENSG00000151726	ACSL1	acyl-CoA synthetase long chain family member 1 [Source:HGNC Symbol;Acc:HGNC:3569]	protein coding	6.19	2.38	16.50	0.00	0.01	
ENSG00000118520	ARG1	arginase 1 [Source:HGNC Symbol;Acc:HGNC:663]	protein coding	-6.13	2.37	13.56	0.00	0.02	
ENSG00000183709	IFNL2	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	protein coding	5.99	2.23	12.59	0.00	0.03	
ENSG00000267478		nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2) pseudogene	processed pseudo-gene	5.87	2.13	11.92	0.00	0.03	
ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]	protein coding	5.87	2.13	12.21	0.00	0.03	
ENSG00000128284	APOL3	apolipoprotein L3 [Source:HGNC Symbol;Acc:HGNC:14868]	protein coding	5.78	2.19	11.87	0.00	0.03	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	5.77	5.34	49.20	0.00	0.00	
ENSG00000234327			processed transcript	-5.76	2.18	15.24	0.00	0.01	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	5.68	6.80	47.52	0.00	0.00	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	5.68	6.87	61.06	0.00	0.00	
ENSG00000153253	SCN3A	sodium voltage-gated channel alpha subunit 3 [Source:HGNC Symbol;Acc:HGNC:10590]	protein coding	5.65	2.10	11.56	0.00	0.04	
ENSG00000169554	ZEB2	zinc finger E-box binding homeobox 2 [Source:HGNC Symbol;Acc:HGNC:14881]	protein coding	5.60	1.96	13.38	0.00	0.02	
ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	protein coding	5.55	4.12	27.02	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	protein coding	5.52	3.68	24.56	0.00	0.00	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	5.48	8.41	52.96	0.00	0.00	
ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]	protein coding	5.42	1.87	12.18	0.00	0.03	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	5.38	6.44	46.47	0.00	0.00	
ENSG00000200800	RNU1-130P	RNA, U1 small nuclear 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:48472]	snRNA	5.27	2.75	13.94	0.00	0.01	
ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	protein coding	5.27	3.11	16.07	0.00	0.01	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	5.13	4.82	26.66	0.00	0.00	
ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	5.12	5.39	40.92	0.00	0.00	
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	5.06	6.70	54.58	0.00	0.00	
ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	protein coding	5.01	4.15	23.53	0.00	0.00	
ENSG00000136383	ALPK3	alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:17574]	protein coding	4.98	3.24	20.89	0.00	0.00	
ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	protein coding	4.98	2.75	17.42	0.00	0.00	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	4.97	6.02	50.45	0.00	0.00	
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	protein coding	4.97	4.56	21.43	0.00	0.00	
ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	protein coding	4.95	3.22	19.70	0.00	0.00	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	4.93	3.40	19.91	0.00	0.00	
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	protein coding	4.86	4.82	28.25	0.00	0.00	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	4.82	8.97	37.52	0.00	0.00	
ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	protein coding	-4.81	3.34	19.06	0.00	0.00	
ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	protein coding	4.80	2.73	15.89	0.00	0.01	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	4.79	5.82	46.55	0.00	0.00	
ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	protein coding	4.78	2.50	16.81	0.00	0.00	

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ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	snRNA	4.77	2.97	13.79	0.00	0.02	
ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	protein coding	4.76	4.18	22.38	0.00	0.00	
ENSG00000206820	RNU1-138P	RNA, U1 small nuclear 138, pseudogene [Source:HGNC Symbol;Acc:HGNC:48480]	snRNA	4.75	6.78	23.14	0.00	0.00	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	4.69	6.43	49.24	0.00	0.00	
ENSG00000181218	HIST3H2A	histone cluster 3 H2A [Source:HGNC Symbol;Acc:HGNC:20507]	protein coding	4.68	2.58	11.33	0.00	0.04	
ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	protein coding	4.68	3.06	12.09	0.00	0.03	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	4.65	6.40	40.52	0.00	0.00	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudogene	4.64	4.52	23.62	0.00	0.00	
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	protein coding	4.63	3.32	19.30	0.00	0.00	
ENSG00000200807	RNU1-32P	RNA, U1 small nuclear 32, pseudogene [Source:HGNC Symbol;Acc:HGNC:48374]	snRNA	4.62	6.18	26.96	0.00	0.00	
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	4.61	5.78	24.31	0.00	0.00	
ENSG00000187720	THSD4	thrombospondin type 1 domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25835]	protein coding	4.61	2.96	14.12	0.00	0.01	
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	protein coding	4.59	2.76	11.78	0.00	0.04	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	4.57	7.19	48.04	0.00	0.00	
ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	antisense	4.52	2.35	13.22	0.00	0.02	
ENSG00000261227		novel transcript	lincRNA	4.51	2.94	18.40	0.00	0.00	
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	protein coding	4.47	3.09	15.67	0.00	0.01	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	4.45	5.65	28.85	0.00	0.00	
ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	protein coding	4.44	3.99	23.18	0.00	0.00	
ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	protein coding	4.42	4.91	14.64	0.00	0.01	

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ENSG00000283162		STR A6-like (Stra6l) pseudogene	transcribed unprocessed pseudogene	4.41	3.21	20.48	0.00	0.00	
ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	protein coding	4.31	5.24	32.15	0.00	0.00	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	4.27	5.57	37.69	0.00	0.00	
ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene) [Source:HGNC Symbol;Acc:HGNC:4969]	unprocessed pseudogene	4.26	2.75	16.94	0.00	0.00	
ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	protein coding	4.26	2.97	16.46	0.00	0.01	
ENSG00000278099			snRNA	4.22	9.28	15.85	0.00	0.01	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	4.21	7.16	33.43	0.00	0.00	
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	4.20	8.81	36.72	0.00	0.00	
ENSG00000201910	RNU1-140P	RNA, U1 small nuclear 140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48482]	snRNA	4.16	4.53	17.51	0.00	0.00	
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	protein coding	4.16	6.43	35.57	0.00	0.00	
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	protein coding	-4.15	4.98	25.79	0.00	0.00	
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3796]	protein coding	4.12	4.47	26.63	0.00	0.00	
ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	protein coding	4.12	3.87	16.29	0.00	0.01	
ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	protein coding	4.12	6.84	24.09	0.00	0.00	
ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	lincRNA	4.10	2.85	14.20	0.00	0.01	
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3797]	protein coding	4.08	3.54	20.18	0.00	0.00	
ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	transcribed unprocessed pseudogene	4.08	3.67	12.79	0.00	0.02	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	4.07	6.64	32.17	0.00	0.00	
ENSG00000232829	GSTO3P	glutathione S-transferase omega 3, pseudogene [Source:HGNC Symbol;Acc:HGNC:23065]	processed pseudogene	-4.07	3.59	13.70	0.00	0.02	

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ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	4.05	8.50	20.81	0.00	0.00	
ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	protein coding	4.02	4.65	28.41	0.00	0.00	
ENSG00000200197	RNU1-21P	RNA, U1 small nuclear 21, pseudogene [Source:HGNC Symbol;Acc:HGNC:41947]	snRNA	3.97	5.58	21.12	0.00	0.00	
ENSG00000123095	BHLHE41	basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]	protein coding	3.96	2.85	15.61	0.00	0.01	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	3.95	6.11	38.47	0.00	0.00	
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	protein coding	3.93	3.68	14.91	0.00	0.01	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	3.92	6.52	25.91	0.00	0.00	
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	protein coding	3.91	4.77	24.68	0.00	0.00	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	3.91	7.19	31.04	0.00	0.00	
ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	protein coding	3.90	5.16	27.84	0.00	0.00	
ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]	protein coding	3.90	3.97	13.34	0.00	0.02	
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	protein coding	3.87	5.28	30.29	0.00	0.00	
ENSG00000067057	PFKP	phosphofructokinase, platelet [Source:HGNC Symbol;Acc:HGNC:8878]	protein coding	3.87	2.46	12.61	0.00	0.03	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	3.86	7.03	22.98	0.00	0.00	
ENSG00000253616		novel transcript	antisense	3.83	4.96	24.69	0.00	0.00	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	3.82	6.26	27.64	0.00	0.00	
ENSG00000188760	TMEM198	transmembrane protein 198 [Source:HGNC Symbol;Acc:HGNC:33704]	protein coding	3.80	3.15	11.49	0.00	0.04	
ENSG0000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	3.80	3.42	14.72	0.00	0.01	
ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	protein coding	3.75	5.80	23.85	0.00	0.00	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	3.75	6.44	32.78	0.00	0.00	
ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	protein coding	3.74	4.59	15.74	0.00	0.01	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	3.72	7.05	18.14	0.00	0.00	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	3.72	8.19	20.74	0.00	0.00	

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ENSG00000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]	protein coding	3.71	3.02	15.28	0.00	0.01	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	3.71	4.48	19.37	0.00	0.00	
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	protein coding	3.65	5.42	24.29	0.00	0.00	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	3.63	7.02	20.18	0.00	0.00	
ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	protein coding	3.62	4.16	17.44	0.00	0.00	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	3.60	5.91	31.99	0.00	0.00	
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	3.59	7.27	31.76	0.00	0.00	
ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]	protein coding	3.59	3.27	16.48	0.00	0.01	
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	protein coding	3.59	5.09	26.59	0.00	0.00	
ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	protein coding	3.57	6.78	29.99	0.00	0.00	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	3.57	6.62	32.06	0.00	0.00	
ENSG00000198771	RCSD1	RCSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28310]	protein coding	-3.57	3.00	13.55	0.00	0.02	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	3.56	7.43	28.73	0.00	0.00	
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	3.55	6.43	30.95	0.00	0.00	
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	protein coding	3.53	3.57	14.61	0.00	0.01	
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	protein coding	3.53	6.69	23.19	0.00	0.00	
ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetyl/galactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]	protein coding	3.52	3.65	13.08	0.00	0.02	
ENSG00000252481	SCARNA13	small Cajal body-specific RNA 13 [Source:HGNC Symbol;Acc:HGNC:32570]	scRNA	3.51	2.99	11.75	0.00	0.04	
ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	protein coding	3.50	3.91	18.69	0.00	0.00	
ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	protein coding	3.49	7.46	15.15	0.00	0.01	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	3.48	4.51	20.93	0.00	0.00	
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	protein coding	-3.48	6.03	19.24	0.00	0.00	
ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]	protein coding	-3.44	6.23	12.28	0.00	0.03	

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ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]	protein coding	3.44	6.15	16.88	0.00	0.00	
ENSG0000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]	protein coding	3.42	6.69	25.64	0.00	0.00	
ENSG0000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	protein coding	3.40	5.05	12.74	0.00	0.02	
ENSG0000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	transcribed unprocessed pseudogene	3.38	4.27	14.25	0.00	0.01	
ENSG0000241935	HOGA1	4-hydroxy-2-oxoglutarate aldolase 1 [Source:HGNC Symbol;Acc:HGNC:25155]	protein coding	-3.37	2.94	12.24	0.00	0.03	
ENSG0000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	protein coding	3.36	3.76	13.64	0.00	0.02	
ENSG0000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]	protein coding	3.33	3.34	12.37	0.00	0.03	
ENSG0000102003	SYP	synaptophysin [Source:HGNC Symbol;Acc:HGNC:11506]	protein coding	3.31	3.69	12.63	0.00	0.03	
ENSG0000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	protein coding	3.29	3.75	14.03	0.00	0.01	
ENSG0000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]	snRNA	3.28	6.67	19.47	0.00	0.00	
ENSG0000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	3.26	7.06	29.76	0.00	0.00	
ENSG0000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	3.25	7.82	28.31	0.00	0.00	
ENSG0000207349	RNVU1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]	snRNA	3.24	7.62	19.84	0.00	0.00	
ENSG0000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	protein coding	3.23	5.06	23.38	0.00	0.00	
ENSG0000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	protein coding	3.23	4.38	16.90	0.00	0.00	
ENSG0000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	protein coding	3.23	5.34	22.99	0.00	0.00	
ENSG0000202347	RNU1-16P	RNA, U1 small nuclear 16, pseudogene [Source:HGNC Symbol;Acc:HGNC:39890]	snRNA	3.22	5.25	11.76	0.00	0.04	
ENSG0000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]	protein coding	3.20	5.55	23.54	0.00	0.00	
ENSG0000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	protein coding	3.18	7.61	16.04	0.00	0.01	
ENSG0000127561	SYNGR3	synaptogyrin 3 [Source:HGNC Symbol;Acc:HGNC:11501]	protein coding	3.17	2.90	11.29	0.00	0.04	
ENSG0000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	protein coding	3.17	6.26	15.50	0.00	0.01	

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ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta [Source:HGNC Symbol;Acc:HGNC:9310]	protein coding	3.15	5.77	11.58	0.00	0.04	
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	protein coding	3.14	4.47	13.39	0.00	0.02	
ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic 128, pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]	misc RNA	3.14	3.34	12.42	0.00	0.03	
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	3.14	6.17	24.20	0.00	0.00	
ENSG00000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like [Source:HGNC Symbol;Acc:HGNC:15797]	protein coding	3.11	5.47	11.94	0.00	0.03	
ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]	protein coding	3.10	5.23	18.02	0.00	0.00	
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	protein coding	3.10	3.75	13.39	0.00	0.02	
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	protein coding	3.10	6.46	23.70	0.00	0.00	
ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	protein coding	3.09	3.68	11.82	0.00	0.04	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	3.09	7.08	20.16	0.00	0.00	
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	protein coding	3.08	7.26	20.13	0.00	0.00	
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	protein coding	3.07	6.72	21.61	0.00	0.00	
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	protein coding	3.05	3.73	11.61	0.00	0.04	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	3.05	6.80	15.65	0.00	0.01	
ENSG00000207322	RNU1-89P	RNA, U1 small nuclear 89, pseudogene [Source:HGNC Symbol;Acc:HGNC:48431]	snRNA	3.01	5.74	14.03	0.00	0.01	
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	3.01	5.41	15.30	0.00	0.01	
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	3.01	6.26	19.13	0.00	0.00	
ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	protein coding	2.99	5.75	19.37	0.00	0.00	
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	protein coding	2.99	6.15	23.03	0.00	0.00	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	protein coding	2.98	6.47	21.54	0.00	0.00	
ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	protein coding	2.95	6.70	22.82	0.00	0.00	
ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]	protein coding	2.94	6.08	15.97	0.00	0.01	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	protein coding	2.93	7.51	20.61	0.00	0.00	
ENSG00000156510	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23302]	protein coding	2.92	5.37	21.08	0.00	0.00	
ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	protein coding	2.91	5.47	13.65	0.00	0.02	
ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	protein coding	2.90	6.57	22.52	0.00	0.00	
ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	protein coding	2.90	6.73	22.57	0.00	0.00	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	2.89	5.43	20.90	0.00	0.00	
ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]	protein coding	2.89	5.02	16.21	0.00	0.01	
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	protein coding	2.89	5.38	19.26	0.00	0.00	
ENSG00000212609	RNU1-139P	RNA, U1 small nuclear 139, pseudogene [Source:HGNC Symbol;Acc:HGNC:48481]	snRNA	2.89	6.47	14.31	0.00	0.01	
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	protein coding	2.89	4.96	13.22	0.00	0.02	
ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	protein coding	2.89	6.48	21.47	0.00	0.00	
ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]	processed transcript	2.88	6.61	20.66	0.00	0.00	
ENSG00000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	protein coding	2.88	3.07	11.27	0.00	0.04	
ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]	protein coding	-2.87	5.39	12.79	0.00	0.02	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	2.84	7.44	18.02	0.00	0.00	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	2.83	6.90	19.08	0.00	0.00	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	2.82	5.78	20.84	0.00	0.00	
ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	protein coding	2.82	4.01	13.70	0.00	0.02	
ENSG00000166173	LARP6	La ribonucleoprotein domain family member 6 [Source:HGNC Symbol;Acc:HGNC:24012]	protein coding	2.81	4.76	14.50	0.00	0.01	
ENSG00000141994	DUS3L	dihydrouridine synthase 3 like [Source:HGNC Symbol;Acc:HGNC:26920]	protein coding	2.80	5.16	18.63	0.00	0.00	
ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]	protein coding	2.78	5.23	11.50	0.00	0.04	
ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	protein coding	2.78	5.33	15.76	0.00	0.01	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	protein coding	2.77	8.21	19.91	0.00	0.00	
ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]	protein coding	2.76	6.46	19.48	0.00	0.00	
ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	protein coding	2.76	5.08	17.63	0.00	0.00	
ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]	protein coding	-2.75	5.22	12.96	0.00	0.02	
ENSG00000114019	AMOTL2	angiomotin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	protein coding	2.75	8.00	17.55	0.00	0.00	
ENSG00000196588	MRTFA	myocardin related transcription factor A [Source:HGNC Symbol;Acc:HGNC:14334]	protein coding	2.74	6.44	21.12	0.00	0.00	
ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	protein coding	2.74	7.33	18.63	0.00	0.00	
ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	protein coding	2.72	5.53	15.47	0.00	0.01	
ENSG00000221869	CEBDP	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	2.72	5.95	13.26	0.00	0.02	
ENSG00000100226	GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4669]	protein coding	2.72	6.62	16.99	0.00	0.00	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	2.70	5.00	16.52	0.00	0.01	
ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	protein coding	-2.69	8.00	18.74	0.00	0.00	
ENSG00000134986	NREP	neuronal regeneration related protein [Source:HGNC Symbol;Acc:HGNC:16834]	protein coding	-2.69	5.45	15.45	0.00	0.01	
ENSG00000263528	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon [Source:HGNC Symbol;Acc:HGNC:14552]	protein coding	2.68	4.61	11.67	0.00	0.04	
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	protein coding	2.68	5.37	16.62	0.00	0.00	
ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]	protein coding	2.66	4.40	11.99	0.00	0.03	
ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]	protein coding	2.64	4.46	12.69	0.00	0.03	
ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	protein coding	-2.64	4.72	11.54	0.00	0.04	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.63	6.62	18.82	0.00	0.00	
ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	protein coding	2.63	5.48	15.41	0.00	0.01	
ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]	protein coding	2.63	6.18	13.51	0.00	0.02	
ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	protein coding	2.62	5.28	16.65	0.00	0.00	
ENSG00000213160	KLHL23	kelch like family member 23 [Source:HGNC Symbol;Acc:HGNC:27506]	protein coding	-2.61	4.63	12.41	0.00	0.03	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	protein coding	2.60	8.16	16.16	0.00	0.01	
ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	protein coding	2.59	6.32	15.11	0.00	0.01	
ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]	protein coding	2.58	4.68	14.38	0.00	0.01	
ENSG00000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	protein coding	2.58	4.30	14.32	0.00	0.01	
ENSG00000207110	RNU1-106P	RNA, U1 small nuclear 106, pseudogene [Source:HGNC Symbol;Acc:HGNC:48448]	snRNA	2.57	5.21	11.99	0.00	0.03	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	2.57	5.13	12.23	0.00	0.03	
ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	protein coding	2.56	7.69	14.59	0.00	0.01	
ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	protein coding	2.55	5.92	12.87	0.00	0.02	
ENSG0000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	protein coding	2.53	7.48	14.77	0.00	0.01	
ENSG00000207175	RNU1-67P	RNA, U1 small nuclear 67, pseudogene [Source:HGNC Symbol;Acc:HGNC:48409]	snRNA	2.53	6.51	16.17	0.00	0.01	
ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6206]	protein coding	2.49	7.77	15.96	0.00	0.01	
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	2.48	6.14	19.43	0.00	0.00	
ENSG00000204616	TRIM31	tripartite motif containing 31 [Source:HGNC Symbol;Acc:HGNC:16289]	protein coding	2.44	4.47	12.28	0.00	0.03	
ENSG0000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	protein coding	2.40	6.92	18.96	0.00	0.00	
ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	protein coding	2.39	7.48	15.08	0.00	0.01	
ENSG00000104866	PPP1R37	protein phosphatase 1 regulatory subunit 37 [Source:HGNC Symbol;Acc:HGNC:27607]	protein coding	2.38	6.21	12.64	0.00	0.03	
ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	protein coding	2.37	6.70	15.47	0.00	0.01	
ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	protein coding	2.37	5.94	15.18	0.00	0.01	
ENSG00000198832	SELENOM	selenoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]	protein coding	2.36	6.30	13.77	0.00	0.02	
ENSG00000131669	NINJ1	ninjurin 1 [Source:HGNC Symbol;Acc:HGNC:7824]	protein coding	2.35	4.96	13.58	0.00	0.02	
ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]	protein coding	2.35	6.39	13.13	0.00	0.02	
ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	protein coding	2.35	8.27	15.56	0.00	0.01	
ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]	protein coding	2.34	4.67	11.21	0.00	0.05	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000175115	PACS1	phosphofuran acidic cluster sorting protein 1 [Source:HGNC Symbol;Acc:HGNC:30032]	protein coding	2.33	8.17	11.56	0.00	0.04	
ENSG00000116809	ZBTB17	zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:HGNC:12936]	protein coding	2.32	5.22	13.48	0.00	0.02	
ENSG00000103168	TAF1C	TATA-box binding protein associated factor, RNA polymerase I subunit C [Source:HGNC Symbol;Acc:HGNC:11534]	protein coding	2.32	5.69	12.79	0.00	0.02	
ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]	protein coding	2.31	6.49	13.00	0.00	0.02	
ENSG00000128228	SDF2L1	stromal cell derived factor 2 like 1 [Source:HGNC Symbol;Acc:HGNC:10676]	protein coding	2.30	6.72	14.96	0.00	0.01	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	2.29	5.24	11.87	0.00	0.03	
ENSG00000120686	UFM1	ubiquitin fold modifier 1 [Source:HGNC Symbol;Acc:HGNC:20597]	protein coding	2.29	6.82	11.97	0.00	0.03	
ENSG00000140105	WARS	tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:12729]	protein coding	2.27	7.59	14.58	0.00	0.01	
ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	protein coding	-2.24	5.70	11.50	0.00	0.04	
ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	protein coding	2.24	6.57	14.69	0.00	0.01	
ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.24	6.66	13.17	0.00	0.02	
ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]	protein coding	2.23	6.07	14.52	0.00	0.01	
ENSG00000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	protein coding	2.22	7.44	13.78	0.00	0.02	
ENSG00000107521	HPS1	HPS1, biogenesis of lysosomal organelles complex 3 subunit 1 [Source:HGNC Symbol;Acc:HGNC:5163]	protein coding	2.21	5.74	11.89	0.00	0.03	
ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]	protein coding	2.12	5.44	12.48	0.00	0.03	
ENSG00000109089	CDR2L	cerebellar degeneration related protein 2 like [Source:HGNC Symbol;Acc:HGNC:29999]	protein coding	2.09	5.09	11.56	0.00	0.04	
ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	protein coding	2.09	5.51	11.10	0.00	0.05	
ENSG00000088826	SMOX	spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]	protein coding	2.04	7.16	11.93	0.00	0.03	
ENSG0000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	protein coding	2.02	5.70	12.09	0.00	0.03	

Table 47: Genes differentially expressed at 40h PI compared to pre-treatment (RP, Huh7, cytosol). Sorted by descending absolute \log_2 fold change (Day 40 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description				Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	Sym-	protein coding		9.11		5.20		81.24	0.00	0.00
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	Sym-	protein coding		6.14		2.73		19.28	0.00	0.01
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]		protein coding		6.05		3.75		36.21	0.00	0.00
ENSG00000230779		ribosomal protein, large, P0 (RPLP0) pseudogene		processed pseudo-gene		5.64		3.93		26.40	0.00	0.00
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]		protein coding		5.37		3.10		32.61	0.00	0.00
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]		protein coding		5.17		4.67		45.70	0.00	0.00
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]		protein coding		4.82		4.92		57.85	0.00	0.00
ENSG00000135114	OASL	2'-5' oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]		protein coding		4.80		3.58		35.51	0.00	0.00
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]		protein coding		4.64		4.76		29.23	0.00	0.00
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]		protein coding		4.40		3.55		22.95	0.00	0.00
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]		protein coding		4.03		3.89		18.54	0.00	0.01
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]		protein coding		3.86		4.95		24.17	0.00	0.00
ENSG00000197063	MAFG	MAF bZIP transcription factor G [Source:HGNC Symbol;Acc:HGNC:6781]		protein coding		3.86		3.41		21.03	0.00	0.00
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]		protein coding		3.72		6.62		41.31	0.00	0.00
ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]		protein coding		3.60		3.49		15.29	0.00	0.03
ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]		protein coding		3.60		3.20		16.79	0.00	0.02
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]		protein coding		3.55		4.50		27.42	0.00	0.00
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]		protein coding		3.22		4.41		26.84	0.00	0.00
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]		protein coding		3.15		4.81		21.37	0.00	0.00
ENSG00000140406	TLNRD1	talin rod domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13519]		protein coding		3.14		3.24		14.71	0.00	0.04
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]		protein coding		3.13		3.32		18.95	0.00	0.01

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (24h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	3.06	5.47	24.70	0.00	0.00	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	3.05	5.28	16.99	0.00	0.02	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	3.03	4.36	17.12	0.00	0.02	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	2.94	5.50	27.47	0.00	0.00	
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	2.92	4.53	19.00	0.00	0.01	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	2.91	3.88	16.29	0.00	0.02	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	2.74	5.84	27.89	0.00	0.00	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	2.73	5.18	26.47	0.00	0.00	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	2.69	5.47	20.22	0.00	0.00	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	2.67	6.01	23.33	0.00	0.00	
ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]	protein coding	2.67	4.49	15.30	0.00	0.03	
ENSG00000253616		novel transcript	antisense	2.55	3.88	17.62	0.00	0.01	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	2.44	5.00	17.94	0.00	0.01	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	2.43	4.21	15.55	0.00	0.03	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	2.40	4.06	16.20	0.00	0.02	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.38	5.81	19.84	0.00	0.01	
ENSG00000221869	CEBDP	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	2.32	4.82	17.64	0.00	0.01	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	2.32	5.04	19.35	0.00	0.01	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	protein coding	2.25	4.69	15.85	0.00	0.03	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	2.20	3.88	14.76	0.00	0.04	
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	2.12	6.87	17.11	0.00	0.02	

Table 48: Genes differentially expressed at 24h PI compared to pre-treatment (RP, Huh7, ER). Sorted by descending absolute \log_2 fold change (Day 24 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description					Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	Sym-	protein coding	12.39	8.16	127.19	0.00	0.00				
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	Sym-	protein coding	9.83	5.62	96.08	0.00	0.00				
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	Sym-	protein coding	8.51	4.34	69.23	0.00	0.00				
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	8.41	5.81	90.59	0.00	0.00					
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	8.26	6.80	117.94	0.00	0.00					
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	8.13	7.54	107.13	0.00	0.00					
ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	protein coding	7.95	5.34	98.00	0.00	0.00					
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3797]	protein coding	7.71	3.57	41.16	0.00	0.00					
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	7.59	4.98	92.11	0.00	0.00					
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	protein coding	7.50	3.42	39.00	0.00	0.00					
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	7.29	7.29	109.94	0.00	0.00					
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	protein coding	7.28	5.40	98.30	0.00	0.00					
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	7.28	4.67	82.25	0.00	0.00					
ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	protein coding	7.24	3.21	39.93	0.00	0.00					
ENSG00000153253	SCN3A	sodium voltage-gated channel alpha subunit 3 [Source:HGNC Symbol;Acc:HGNC:10590]	protein coding	7.14	3.14	31.34	0.00	0.00					
ENSG00000183709	IFNL2	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	protein coding	7.11	3.06	34.35	0.00	0.00					
ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	protein coding	6.89	4.33	59.85	0.00	0.00					
ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	protein coding	6.83	5.37	65.67	0.00	0.00					
ENSG00000211592	IGKC	immunoglobulin kappa constant [Source:HGNC Symbol;Acc:HGNC:5716]	IG C gene	6.82	2.81	11.54	0.00	0.01					
ENSG00000136383	ALPK3	alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:17574]	protein coding	6.81	2.92	23.19	0.00	0.00					
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	protein coding	6.79	2.79	31.04	0.00	0.00					
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	6.77	5.67	63.98	0.00	0.00					
ENSG00000197110	IFNL3	interferon lambda 3 [Source:HGNC Symbol;Acc:HGNC:18365]	protein coding	6.62	2.72	25.15	0.00	0.00					

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Ad- justed P- Value
ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	transcribed unprocessed pseudo-gene	6.60	4.10	45.10	0.00	0.00	
ENSG00000130758	MAP3K10	mitogen-activated protein kinase kinase kinase 10 [Source:HGNC Symbol;Acc:HGNC:6849]	protein coding	6.57	2.70	25.06	0.00	0.00	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	6.52	6.49	76.12	0.00	0.00	
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	protein coding	6.49	2.60	25.55	0.00	0.00	
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	6.49	4.60	72.77	0.00	0.00	
ENSG00000214279	SCART1	scavenger receptor family member expressed on T cells 1 [Source:HGNC Symbol;Acc:HGNC:32411]	protein coding	6.46	2.67	22.39	0.00	0.00	
ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	protein coding	6.41	2.53	26.06	0.00	0.00	
ENSG00000230779		ribosomal protein, large, P0 (RPLP0) pseudogene	processed pseudo-gene	6.37	4.49	48.10	0.00	0.00	
ENSG00000130487	KLHDC7B	kelch domain containing 7B [Source:HGNC Symbol;Acc:HGNC:25145]	protein coding	6.37	2.57	22.62	0.00	0.00	
ENSG00000132274	TRIM22	tripartite motif containing 22 [Source:HGNC Symbol;Acc:HGNC:16379]	protein coding	6.34	3.40	21.49	0.00	0.00	
ENSG00000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	protein coding	6.30	2.44	23.57	0.00	0.00	
ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	protein coding	6.30	2.45	18.98	0.00	0.00	
ENSG00000248713	C4orf54	chromosome 4 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:27741]	protein coding	6.29	2.47	21.59	0.00	0.00	
ENSG00000147262	GPR119	G protein-coupled receptor 119 [Source:HGNC Symbol;Acc:HGNC:19060]	protein coding	-6.26	2.66	10.85	0.00	0.02	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	6.25	9.05	78.57	0.00	0.00	
ENSG00000137959	IFI44L	interferon induced protein 44 like [Source:HGNC Symbol;Acc:HGNC:17817]	protein coding	6.24	2.28	17.96	0.00	0.00	
ENSG00000148123	PLPPR1	phospholipid phosphatase related 1 [Source:HGNC Symbol;Acc:HGNC:25993]	protein coding	-6.24	3.79	22.62	0.00	0.00	
ENSG00000110446	SLC15A3	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	protein coding	6.19	2.22	16.67	0.00	0.00	
ENSG00000078081	LAMP3	lysosomal associated membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:14582]	protein coding	6.16	2.34	20.50	0.00	0.00	
ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]	protein coding	6.14	2.35	19.75	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000173114	LRRN3	leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HGNC:17200]	protein coding	6.04	2.39	13.14	0.00	0.01	
ENSG00000282870	FRG1DP	FSHD region gene 1 family member D, pseudogene [Source:HGNC Symbol;Acc:HGNC:51763]	unprocessed pseudo-gene	6.04	2.30	19.41	0.00	0.00	
ENSG00000110944	IL23A	interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:15488]	protein coding	6.02	2.23	19.93	0.00	0.00	
ENSG00000186212	SOWAHB	sosondowah ankyrin repeat domain family member B [Source:HGNC Symbol;Acc:HGNC:32958]	protein coding	5.97	2.28	14.56	0.00	0.00	
ENSG00000136514	RTP4	receptor transporter protein 4 [Source:HGNC Symbol;Acc:HGNC:23992]	protein coding	5.87	2.20	16.85	0.00	0.00	
ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	protein coding	5.87	2.13	18.07	0.00	0.00	
ENSG00000200169	RNU5D-1	RNA, U5D small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10214]	snRNA	-5.86	2.47	8.24	0.00	0.04	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	protein coding	5.82	2.11	16.70	0.00	0.00	
ENSG00000087085	ACHE	acetylcholinesterase (Cartwright blood group) [Source:HGNC Symbol;Acc:HGNC:108]	protein coding	5.78	2.19	14.42	0.00	0.00	
ENSG00000119703	ZC2HC1C	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]	protein coding	5.74	1.84	10.65	0.00	0.02	
ENSG00000134326	CMPK2	cytidine/uridine monophosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:27015]	protein coding	5.70	1.86	12.86	0.00	0.01	
ENSG00000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	protein coding	5.68	1.91	12.18	0.00	0.01	
ENSG00000268205		novel transcript	lincRNA	5.67	2.06	15.62	0.00	0.00	
ENSG00000250899		novel transcript	lincRNA	5.67	2.09	13.11	0.00	0.01	
ENSG00000135842	FAM129A	family with sequence similarity 129 member A [Source:HGNC Symbol;Acc:HGNC:16784]	protein coding	5.66	2.09	13.47	0.00	0.01	
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	5.62	6.21	68.37	0.00	0.00	
ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	protein coding	5.58	5.01	43.36	0.00	0.00	
ENSG00000132530	XAF1	XIAP associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30932]	protein coding	5.53	1.64	8.09	0.00	0.05	
ENSG00000272269			antisense	5.51	1.96	14.17	0.00	0.00	
ENSG00000169228	RAB24	RAB24, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9765]	protein coding	5.50	1.98	13.37	0.00	0.01	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	5.49	6.92	76.34	0.00	0.00	
ENSG00000243716	NPIPB5	nuclear pore complex interacting protein family member B5 [Source:HGNC Symbol;Acc:HGNC:37233]	protein coding	5.49	1.97	14.29	0.00	0.00	
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3796]	protein coding	5.49	4.43	47.78	0.00	0.00	
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	protein coding	5.48	5.15	72.95	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000273142	LINC02604	long intergenic non-protein coding RNA 2604 [Source:HGNC Symbol;Acc:HGNC:53972]	lincRNA	5.43	1.93	13.71	0.00	0.01	
ENSG00000197063	MAFG	MAF bZIP transcription factor G [Source:HGNC Symbol;Acc:HGNC:6781]	protein coding	5.42	4.73	45.28	0.00	0.00	
ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	protein coding	5.41	4.89	46.17	0.00	0.00	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	5.40	7.63	77.15	0.00	0.00	
ENSG00000227425	MRPS21P2	mitochondrial ribosomal protein S21 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:29749]	processed pseudo-gene	-5.40	2.11	8.19	0.00	0.04	
ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	protein coding	5.37	1.88	13.43	0.00	0.01	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	5.35	6.16	70.77	0.00	0.00	
ENSG00000137463	MGARP	mitochondria localized glutamic acid rich protein [Source:HGNC Symbol;Acc:HGNC:29969]	protein coding	-5.35	2.03	10.07	0.00	0.02	
ENSG00000177943	MAMDC4	MAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:24083]	protein coding	5.30	1.91	12.23	0.00	0.01	
ENSG00000147642	SYBU	syntabulin [Source:HGNC Symbol;Acc:HGNC:26011]	protein coding	5.30	1.65	8.92	0.00	0.03	
ENSG00000243406	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:39253]	transcribed unprocessed pseudo-gene	5.27	1.91	9.77	0.00	0.03	
ENSG00000218502	H2AFZP3	H2A histone family member Z pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:38013]	processed pseudo-gene	-5.25	1.95	10.66	0.00	0.02	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	5.21	7.25	52.42	0.00	0.00	
ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	protein coding	5.20	2.85	24.08	0.00	0.00	
ENSG00000159753	CARMIL2	capping protein regulator and myosin 1 linker 2 [Source:HGNC Symbol;Acc:HGNC:27089]	protein coding	5.18	1.84	11.09	0.00	0.02	
ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]	protein coding	5.17	4.33	42.42	0.00	0.00	
ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	protein coding	5.16	2.97	24.23	0.00	0.00	
ENSG00000133328	HRASLS2	HRAS like suppressor 2 [Source:HGNC Symbol;Acc:HGNC:17824]	protein coding	5.15	1.64	10.98	0.00	0.02	
ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	protein coding	5.15	3.37	36.76	0.00	0.00	
ENSG00000232624	LINC01517	long intergenic non-protein coding RNA 1517 [Source:HGNC Symbol;Acc:HGNC:51212]	processed transcript	5.13	1.68	11.13	0.00	0.02	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description			Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre- treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]		Sym-	lincRNA	5.12	1.73	10.18	0.00	0.02	
ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]			protein coding	5.04	1.65	10.99	0.00	0.02	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]			protein coding	5.00	5.08	63.52	0.00	0.00	
ENSG00000137877	SPTBN5	spectrin beta, non-erythrocytic 5 [Source:HGNC Symbol;Acc:HGNC:15680]			protein coding	5.00	1.68	10.67	0.00	0.02	
ENSG00000197283	SYNGAP1	synaptic Ras GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:11497]			protein coding	4.97	2.88	20.96	0.00	0.00	
ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]			protein coding	4.96	7.54	69.60	0.00	0.00	
ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]			protein coding	4.95	2.63	24.29	0.00	0.00	
ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]			protein coding	4.94	5.10	49.25	0.00	0.00	
ENSG00000185507	IRF7	interferon regulatory factor 7 [Source:HGNC Symbol;Acc:HGNC:6122]			protein coding	4.90	1.69	9.90	0.00	0.02	
ENSG00000198841	KTI12	KTI12 chromatin associated homolog [Source:HGNC Symbol;Acc:HGNC:25160]			protein coding	4.89	1.65	9.56	0.00	0.03	
ENSG00000230071	RPL4P6	ribosomal protein L4 pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:35611]			processed pseudo-gene	4.88	1.59	10.51	0.00	0.02	
ENSG00000261227		novel transcript			lincRNA	4.83	2.53	19.97	0.00	0.00	
ENSG00000230733		novel transcript			lincRNA	4.83	3.61	25.06	0.00	0.00	
ENSG00000283162		STRA6-like (Stra6l) pseudogene			transcribed unprocessed pseudo-gene	4.82	3.59	31.78	0.00	0.00	
ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily I member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]			protein coding	4.82	2.59	19.14	0.00	0.00	
ENSG00000181016	LSMEM1	leucine rich single-pass membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:22036]			protein coding	4.82	1.60	10.00	0.00	0.02	
ENSG00000239883	PARGP1	poly(ADP-ribose) glycohydrolase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45008]			transcribed unprocessed pseudo-gene	4.80	1.67	9.40	0.00	0.03	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]			protein coding	4.76	8.53	32.56	0.00	0.00	
ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]			protein coding	4.74	3.45	33.96	0.00	0.00	
ENSG00000108242	CYP2C18	cytochrome P450 family 2 subfamily C member 18 [Source:HGNC Symbol;Acc:HGNC:2620]			protein coding	-4.73	2.53	11.91	0.00	0.01	

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ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	Sym- bol;Acc:HGNC:4670]	protein coding	4.73	5.80	56.29	0.00	0.00	
ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	Sym- bol;Acc:HGNC:28680]	protein coding	4.67	4.33	29.04	0.00	0.00	
ENSG00000092607	TBX15	T-box 15 [Source:HGNC Symbol;Acc:HGNC:11594]		protein coding	4.67	2.44	15.91	0.00	0.00	
ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]	Sym- bol;Acc:HGNC:12953]	protein coding	4.64	3.33	27.17	0.00	0.00	
ENSG00000198198	SZT2	SZT2, KICSTOR complex subunit [Source:HGNC Symbol;Acc:HGNC:29040]	Sym- bol;Acc:HGNC:29040]	protein coding	4.64	4.81	39.76	0.00	0.00	
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	Sym- bol;Acc:HGNC:10825]	protein coding	4.63	4.38	46.02	0.00	0.00	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	Sym- bol;Acc:HGNC:11896]	protein coding	4.61	5.63	51.83	0.00	0.00	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	Sym- bol;Acc:HGNC:9108]	protein coding	4.61	6.95	50.43	0.00	0.00	
ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	Sym- bol;Acc:HGNC:9037]	protein coding	4.60	3.19	20.76	0.00	0.00	
ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	Sym- bol;Acc:HGNC:12703]	protein coding	4.60	3.39	27.73	0.00	0.00	
ENSG00000133401	PDZD2	PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC:18486]	Sym- bol;Acc:HGNC:18486]	protein coding	4.59	1.47	7.91	0.00	0.05	
ENSG00000230825				processed transcript	4.59	1.51	8.79	0.00	0.04	
ENSG00000157152	SYN2	synapsin II [Source:HGNC Symbol;Acc:HGNC:11495]	Sym- bol;Acc:HGNC:11495]	protein coding	4.58	1.47	8.25	0.00	0.04	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	Sym- bol;Acc:HGNC:3064]	protein coding	4.57	7.74	62.18	0.00	0.00	
ENSG00000104880	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]	Sym- bol;Acc:HGNC:17090]	protein coding	4.57	3.67	30.56	0.00	0.00	
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	Sym- bol;Acc:HGNC:1357]	protein coding	4.57	2.91	15.47	0.00	0.00	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	Sym- bol;Acc:HGNC:29558]	protein coding	4.55	5.31	53.26	0.00	0.00	
ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	Sym- bol;Acc:HGNC:9869]	protein coding	4.54	4.71	41.50	0.00	0.00	
ENSG00000164061	BSN	bassoon presynaptic cytomatrix protein [Source:HGNC Symbol;Acc:HGNC:1117]	Sym- bol;Acc:HGNC:1117]	protein coding	4.53	2.42	15.30	0.00	0.00	
ENSG00000073734	ABCB11	ATP binding cassette subfamily B member 11 [Source:HGNC Symbol;Acc:HGNC:42]	Sym- bol;Acc:HGNC:42]	protein coding	-4.53	2.44	9.28	0.00	0.03	
ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	Sym- bol;Acc:HGNC:32034]	protein coding	4.51	3.60	35.60	0.00	0.00	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	Sym- bol;Acc:HGNC:6205]	protein coding	4.50	6.91	62.29	0.00	0.00	

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ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	protein coding	4.50	4.11	36.69	0.00	0.00	
ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	lincRNA	4.49	2.41	14.03	0.00	0.01	
ENSG00000080910	CFHR2	complement factor H related 2 [Source:HGNC Symbol;Acc:HGNC:4890]	protein coding	-4.47	2.41	11.41	0.00	0.01	
ENSG00000281706		long intergenic non-protein coding RNA 1012 [Source:NCBI gene;Acc:100507173]	lincRNA	4.47	2.44	17.46	0.00	0.00	
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	4.45	7.32	63.90	0.00	0.00	
ENSG00000112486	CCR6	C-C motif chemokine receptor 6 [Source:HGNC Symbol;Acc:HGNC:1607]	protein coding	-4.44	4.33	24.87	0.00	0.00	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	4.43	7.23	64.78	0.00	0.00	
ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]	protein coding	4.43	2.30	11.13	0.00	0.02	
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	4.39	5.46	33.61	0.00	0.00	
ENSG00000092421	SEMA6A	semaphorin 6A [Source:HGNC Symbol;Acc:HGNC:10738]	protein coding	-4.38	2.79	12.71	0.00	0.01	
ENSG00000099812	MISP	mitotic spindle positioning [Source:HGNC Symbol;Acc:HGNC:27000]	protein coding	4.36	2.26	15.11	0.00	0.00	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	4.36	5.06	62.69	0.00	0.00	
ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	protein coding	4.35	2.35	12.50	0.00	0.01	
ENSG00000235119		novel transcript	lincRNA	4.34	2.38	8.00	0.00	0.05	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	4.33	5.70	63.15	0.00	0.00	
ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]	protein coding	4.31	2.29	13.82	0.00	0.01	
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	protein coding	4.30	5.82	61.77	0.00	0.00	
ENSG00000145214	DGKQ	diacylglycerol kinase theta [Source:HGNC Symbol;Acc:HGNC:2856]	protein coding	4.30	4.27	26.46	0.00	0.00	
ENSG00000111186	WNT5B	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	protein coding	-4.26	2.28	9.54	0.00	0.03	
ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	protein coding	4.25	5.13	51.71	0.00	0.00	
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	protein coding	4.23	4.89	45.37	0.00	0.00	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	4.23	6.52	56.89	0.00	0.00	
ENSG00000197483	ZNF628	zinc finger protein 628 [Source:HGNC Symbol;Acc:HGNC:28054]	protein coding	4.22	4.06	30.42	0.00	0.00	

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ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	4.22	9.00	34.38	0.00	0.00	
ENSG00000226312	CFLAR-AS1	CFLAR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:14437]	antisense	4.20	2.14	13.05	0.00	0.01	
ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]	protein coding	-4.17	5.09	33.84	0.00	0.00	
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	4.17	5.59	51.46	0.00	0.00	
ENSG00000131797	CLUHP3	clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447]	transcribed unprocessed pseudogene	4.15	3.03	22.81	0.00	0.00	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	4.15	8.84	29.70	0.00	0.00	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	4.15	6.77	47.87	0.00	0.00	
ENSG00000073605	GSDMB	gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]	protein coding	4.13	1.91	9.31	0.00	0.03	
ENSG00000185950	IRS2	insulin receptor substrate 2 [Source:HGNC Symbol;Acc:HGNC:6126]	protein coding	4.13	5.25	38.01	0.00	0.00	
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	protein coding	4.13	2.63	19.02	0.00	0.00	
ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]	protein coding	4.13	3.57	21.78	0.00	0.00	
ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	protein coding	4.12	5.20	46.36	0.00	0.00	
ENSG00000187720	THSD4	thrombospondin type 1 domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25835]	protein coding	4.12	2.91	15.54	0.00	0.00	
ENSG00000140044	JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:HGNC:17546]	protein coding	4.09	2.59	16.12	0.00	0.00	
ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic 128, pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]	misc RNA	4.08	3.43	20.13	0.00	0.00	
ENSG00000251568	ALG3P1	ALG3, alpha-1,3- mannosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45159]	processed pseudogene	-4.06	2.14	8.57	0.00	0.04	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	4.06	5.40	49.04	0.00	0.00	
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	protein coding	4.03	5.77	42.45	0.00	0.00	
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	4.03	6.78	46.16	0.00	0.00	
ENSG00000261819			processed pseudogene	-4.01	2.81	11.49	0.00	0.01	

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ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	protein coding	4.00	2.53	14.80	0.00	0.00	
ENSG00000178685	PARP10	poly(ADP-ribose) polymerase family member 10 [Source:HGNC Symbol;Acc:HGNC:25895]	protein coding	4.00	2.97	18.91	0.00	0.00	
ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	protein coding	3.99	3.57	24.80	0.00	0.00	
ENSG00000130876	SLC7A10	solute carrier family 7 member 10 [Source:HGNC Symbol;Acc:HGNC:11058]	protein coding	-3.98	3.07	12.56	0.00	0.01	
ENSG00000179886	TIGD5	tigger transposable element derived 5 [Source:HGNC Symbol;Acc:HGNC:18336]	protein coding	3.98	2.01	11.47	0.00	0.01	
ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	protein coding	3.97	6.59	30.06	0.00	0.00	
ENSG00000147799	ARHGAP39	Rho GTPase activating protein 39 [Source:HGNC Symbol;Acc:HGNC:29351]	protein coding	3.97	3.76	11.60	0.00	0.01	
ENSG00000156030	ELMSAN1	ELM2 and Myb/SANT domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19853]	protein coding	3.97	6.14	38.43	0.00	0.00	
ENSG00000179674	ARL14	ADP ribosylation factor like GTPase 14 [Source:HGNC Symbol;Acc:HGNC:22974]	protein coding	3.96	2.85	21.61	0.00	0.00	
ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]	protein coding	3.96	6.92	33.47	0.00	0.00	
ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	protein coding	3.96	7.07	43.20	0.00	0.00	
ENSG00000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:2561]	protein coding	3.95	4.82	35.39	0.00	0.00	
ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	3.95	2.86	16.48	0.00	0.00	
ENSG00000196123	KIAA0895L	KIAA0895 like [Source:HGNC Symbol;Acc:HGNC:34408]	protein coding	3.93	1.97	12.13	0.00	0.01	
ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	protein coding	3.91	5.40	48.37	0.00	0.00	
ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudo-gene) [Source:HGNC Symbol;Acc:HGNC:4969]	unprocessed pseudo-gene	3.90	1.95	11.75	0.00	0.01	
ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]	protein coding	3.87	2.94	17.28	0.00	0.00	
ENSG00000172216	CEBPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	3.83	6.80	54.70	0.00	0.00	
ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]	protein coding	3.83	4.96	31.55	0.00	0.00	
ENSG00000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]	protein coding	3.82	2.10	9.90	0.00	0.02	
ENSG00000275023	MLLT6	MLLT6, PHD finger containing [Source:HGNC Symbol;Acc:HGNC:7138]	protein coding	3.81	3.76	22.82	0.00	0.00	
ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]	protein coding	3.80	5.78	32.30	0.00	0.00	

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ENSG00000180745	CLRN3	clarin 3 [Source:HGNC Symbol;Acc:HGNC:20795]	protein coding	-3.79	7.47	25.18	0.00	0.00	
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	protein coding	3.77	4.75	32.38	0.00	0.00	
ENSG00000123095	BHLHE41	basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]	protein coding	3.76	3.22	25.35	0.00	0.00	
ENSG00000006432	MAP3K9	mitogen-activated protein kinase kinase kinase 9 [Source:HGNC Symbol;Acc:HGNC:6861]	protein coding	3.76	3.91	18.96	0.00	0.00	
ENSG00000215908	CROCCP2	ciliary rootlet coiled-coil, rootletin pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:28170]	transcribed unprocessed pseudo-gene	3.75	3.72	31.58	0.00	0.00	
ENSG00000198496	NBR2	neighbor of BRCA1 lncRNA 2 [Source:HGNC Symbol;Acc:HGNC:20691]	bidirectional promoter lncRNA	3.74	1.86	8.16	0.00	0.05	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	3.74	5.38	48.04	0.00	0.00	
ENSG00000133106	EPSTI1	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]	protein coding	3.74	3.67	25.46	0.00	0.00	
ENSG00000228551	SNRPGP9	small nuclear ribonucleoprotein polypeptide G pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:39328]	processed pseudo-gene	-3.73	1.96	8.45	0.00	0.04	
ENSG00000179532	DNHD1	dynein heavy chain domain 1 [Source:HGNC Symbol;Acc:HGNC:26532]	protein coding	3.72	2.38	11.54	0.00	0.01	
ENSG00000064932	SBNO2	strawberry notch homolog 2 [Source:HGNC Symbol;Acc:HGNC:29158]	protein coding	3.72	6.79	28.74	0.00	0.00	
ENSG00000170989	S1PR1	sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:HGNC:3165]	protein coding	-3.72	4.07	17.52	0.00	0.00	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	3.72	3.81	31.82	0.00	0.00	
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	3.70	2.91	18.52	0.00	0.00	
ENSG00000164484	TMEM200A	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	protein coding	-3.69	3.19	10.03	0.00	0.02	
ENSG00000169926	KLF13	Kruppel like factor 13 [Source:HGNC Symbol;Acc:HGNC:13672]	protein coding	3.69	3.36	24.18	0.00	0.00	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudo-gene	3.68	3.07	19.36	0.00	0.00	
ENSG00000185453	ZSWIM9	zinc finger SWIM-type containing 9 [Source:HGNC Symbol;Acc:HGNC:34495]	protein coding	3.67	2.82	13.13	0.00	0.01	
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	protein coding	3.67	4.38	35.16	0.00	0.00	

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ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	Symbol	[Source:HGNC	Sym-	protein coding	3.66	4.04	23.96	0.00	0.00				
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	NF- κ B	subunit	[Source:HGNC	protein coding	3.66	5.11	43.98	0.00	0.00				
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	adrenomedullin	2	Symbol	protein coding	3.65	4.56	23.57	0.00	0.00				
ENSG00000102445	RUBCNL	RUN and cysteine rich domain containing beclin 1 interacting protein like [Source:HGNC Symbol;Acc:HGNC:20420]	RUN and	cysteine	rich domain	containing beclin 1 interacting protein like	protein coding	3.65	1.86	9.36	0.00	0.03			
ENSG00000253616		novel transcript				antisense	3.65	4.76	44.43	0.00	0.00				
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	interferon	stimulated	exonuclease	gene 20	protein coding	3.65	6.19	38.70	0.00	0.00			
ENSG00000165197	VEGFD	vascular endothelial growth factor D [Source:HGNC Symbol;Acc:HGNC:3708]	vascular	endothelial	growth	factor D	protein coding	-3.65	3.38	9.11	0.00	0.03			
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	sestrin	2	[Source:HGNC	Symbol;Acc:HGNC:20746]	protein coding	3.64	6.16	46.75	0.00	0.00			
ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	SH2B	adaptor	protein	3	protein coding	3.63	4.22	26.62	0.00	0.00			
ENSG00000108576	SLC6A4	solute carrier family 6 member 4 [Source:HGNC Symbol;Acc:HGNC:11050]	solute	carrier	family	6 member	4	protein coding	-3.63	4.06	20.03	0.00	0.00		
ENSG0000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]	human	immunodeficiency	virus	type I	enhancer	protein coding	3.61	4.61	34.59	0.00	0.00		
ENSG00000242086	MUC20-OT1	MUC20 overlapping transcript [Source:HGNC Symbol;Acc:HGNC:53807]	MUC20	overlapping	transcript	[Source:HGNC	Symbol;Acc:HGNC:53807]	lincRNA	3.61	1.86	8.92	0.00	0.03		
ENSG00000281490	CICP14	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	capicua	transcriptional	repressor	pseudogene	14	processed pseudo-gene	3.61	2.77	11.35	0.00	0.01		
ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	VLDLR	antisense	RNA	1	[Source:HGNC	Symbol;Acc:HGNC:49621]	antisense	3.60	1.85	8.10	0.00	0.05	
ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	early	growth	response	1	[Source:HGNC	Symbol;Acc:HGNC:3238]	protein coding	3.59	4.11	23.73	0.00	0.00	
ENSG00000242756	RHOT1P3	ras homolog family member T1 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:37839]	ras	homolog	family	member	T1	pseudogene	3	processed pseudo-gene	3.59	1.81	8.31	0.00	0.04
ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]	RHEB	like	1	[Source:HGNC	Symbol;Acc:HGNC:21166]	protein coding	3.58	2.57	12.59	0.00	0.01		
ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	cyclin	dependent	kinase	inhibitor	2B	[Source:HGNC	Symbol;Acc:HGNC:1788]	protein coding	3.58	4.75	35.71	0.00	0.00
ENSG00000161996	WDR90	WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:26960]	WD	repeat	domain	90	[Source:HGNC	Symbol;Acc:HGNC:26960]	protein coding	3.58	2.83	17.85	0.00	0.00	
ENSG00000140406	TLNRD1	talin rod domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13519]	talin	rod	domain	containing	1	[Source:HGNC	Symbol;Acc:HGNC:13519]	protein coding	3.57	3.53	20.44	0.00	0.00
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	alpha	kinase	2	[Source:HGNC	Symbol;Acc:HGNC:20565]	protein coding	3.56	3.27	15.73	0.00	0.00		

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ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	Symbol	Acc:HGNC:16228]	Sym-	protein coding	3.55	8.11	38.50	0.00	0.00	
ENSG00000267530	LINC01836	long intergenic non-protein coding RNA 1836 [Source:HGNC Symbol;Acc:HGNC:52652]	Symbol	Acc:HGNC:52652]	1836	lincRNA	3.54	2.66	10.63	0.00	0.02	
ENSG00000142330	CAPN10	calpain 10 [Source:HGNC Symbol;Acc:HGNC:1477]	Symbol	Acc:HGNC:1477]	Sym-	protein coding	3.53	3.18	17.30	0.00	0.00	
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	Symbol	Acc:HGNC:7799]	Sym-	protein coding	3.53	4.25	30.52	0.00	0.00	
ENSG00000181638	ZFP41	ZFP41 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:26786]	Symbol	Acc:HGNC:26786]	Sym-	protein coding	3.52	2.23	11.27	0.00	0.01	
ENSG00000187605	TET3	tet methylcytosine dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:28313]	Symbol	Acc:HGNC:28313]	Sym-	protein coding	3.51	4.32	21.11	0.00	0.00	
ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]	Symbol	Acc:HGNC:6522]	Sym-	protein coding	3.50	2.60	11.04	0.00	0.02	
ENSG00000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]	Symbol	Acc:HGNC:20711]	Sym-	protein coding	3.50	3.42	25.42	0.00	0.00	
ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]	Symbol	Acc:HGNC:26072]	Sym-	protein coding	3.49	3.55	25.49	0.00	0.00	
ENSG00000158246	TENT5B	terminal nucleotidyltransferase 5B [Source:HGNC Symbol;Acc:HGNC:28273]	Symbol	Acc:HGNC:28273]	Sym-	protein coding	3.49	2.77	15.98	0.00	0.00	
ENSG00000165376	CLDN2	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	Symbol	Acc:HGNC:2041]	Sym-	protein coding	-3.48	3.06	10.55	0.00	0.02	
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	Symbol	Acc:HGNC:7795]	Sym-	protein coding	3.48	6.88	47.64	0.00	0.00	
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	Symbol	Acc:HGNC:5392]	Sym-	protein coding	3.47	5.14	26.24	0.00	0.00	
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	Symbol	Acc:HGNC:7532]	Sym-	protein coding	3.47	7.09	37.25	0.00	0.00	
ENSG00000201785	SNORD11T	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	Symbol	Acc:HGNC:32742]	Sym-	snoRNA	3.46	4.17	11.25	0.00	0.01	
ENSG00000161031	PGLYRP2	peptidoglycan recognition protein 2 [Source:HGNC Symbol;Acc:HGNC:30013]	Symbol	Acc:HGNC:30013]	Sym-	protein coding	-3.45	3.82	14.56	0.00	0.00	
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	Symbol	Acc:HGNC:24550]	Sym-	protein coding	-3.44	8.70	23.95	0.00	0.00	
ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	Symbol	Acc:HGNC:22197]	Sym-	protein coding	3.44	6.72	27.87	0.00	0.00	
ENSG00000185158	LRRC37B	leucine rich repeat containing 37B [Source:HGNC Symbol;Acc:HGNC:29070]	Symbol	Acc:HGNC:29070]	Sym-	protein coding	3.43	2.15	11.61	0.00	0.01	
ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	Symbol	Acc:HGNC:37832]	Sym-	transcribed unprocessed pseudo-gene	3.43	2.56	10.59	0.00	0.02	
ENSG00000114019	AMOTL2	angiotonin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	Symbol	Acc:HGNC:17812]	Sym-	protein coding	3.42	7.53	21.66	0.00	0.00	

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ENSG00000185133	INPP5J	inositol polyphosphate-5-phosphatase [Source:HGNC Symbol;Acc:HGNC:8956]	J protein coding	3.41	2.45	12.41	0.00	0.01	
ENSG00000122861	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:HGNC:9052]	J protein coding	-3.41	4.98	25.79	0.00	0.00	
ENSG00000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]	J protein coding	-3.41	4.71	16.05	0.00	0.00	
ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	J protein coding	3.40	2.97	16.43	0.00	0.00	
ENSG00000227942	FRMD8P1	FERM domain containing 8 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:24690]	processed pseudogene	3.39	2.07	9.46	0.00	0.03	
ENSG00000198732	SMOC1	SPARC related modular calcium binding 1 [Source:HGNC Symbol;Acc:HGNC:20318]	J protein coding	-3.39	6.15	18.96	0.00	0.00	
ENSG00000257335	MGAM	maltase-glucoamylase [Source:HGNC Symbol;Acc:HGNC:7043]	J protein coding	3.39	2.44	14.00	0.00	0.01	
ENSG00000155918	RAET1L	retinoic acid early transcript 1L [Source:HGNC Symbol;Acc:HGNC:16798]	J protein coding	3.39	2.13	11.18	0.00	0.02	
ENSG00000253598	SLC10A5	solute carrier family 10 member 5 [Source:HGNC Symbol;Acc:HGNC:22981]	J protein coding	-3.38	4.73	12.30	0.00	0.01	
ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]	J protein coding	-3.37	6.12	31.59	0.00	0.00	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	J protein coding	3.37	3.47	17.86	0.00	0.00	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	J protein coding	3.36	6.04	32.73	0.00	0.00	
ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	J protein coding	3.35	3.67	20.63	0.00	0.00	
ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	J protein coding	3.35	3.94	21.94	0.00	0.00	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	J protein coding	3.35	5.59	39.44	0.00	0.00	
ENSG00000197774	EME2	essential meiotic structure-specific endonuclease subunit 2 [Source:HGNC Symbol;Acc:HGNC:27289]	J protein coding	3.35	2.44	11.92	0.00	0.01	
ENSG00000119227	PIGZ	phosphatidylinositol glycan anchor biosynthesis class Z [Source:HGNC Symbol;Acc:HGNC:30596]	J protein coding	-3.34	2.41	10.37	0.00	0.02	
ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]	J protein coding	-3.34	3.87	19.44	0.00	0.00	
ENSG00000178209	PLEC	plectin [Source:HGNC Symbol;Acc:HGNC:9069]	J protein coding	3.34	7.90	28.68	0.00	0.00	
ENSG00000165475	CRYL1	crystallin lambda 1 [Source:HGNC Symbol;Acc:HGNC:18246]	J protein coding	-3.33	3.31	15.29	0.00	0.00	
ENSG00000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]	J protein coding	3.32	4.70	33.72	0.00	0.00	
ENSG00000119729	RHOQ	ras homolog family member Q [Source:HGNC Symbol;Acc:HGNC:17736]	J protein coding	3.32	2.83	15.13	0.00	0.00	

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ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]	B	[Source:HGNC Symbol;Acc:HGNC:11433]	Sym-	protein coding	-3.31	14.45	11.47	0.00	0.01
ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:5156]	1A	[Source:HGNC Symbol;Acc:HGNC:9446]	Sym-	protein coding	3.31	2.70	12.09	0.00	0.01
ENSG00000261701	HPR	haptoglobin-related protein [Source:HGNC Symbol;Acc:HGNC:28082]			Sym-	protein coding	-3.31	4.58	16.25	0.00	0.00
ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:4251]			Sym-	protein coding	-3.30	7.34	21.14	0.00	0.00
ENSG00000197355	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1 [Source:HGNC Symbol;Acc:HGNC:19599]			protein coding	3.30	4.98	24.47	0.00	0.00	
ENSG00000133475	GGT2	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:11180]			Sym-	protein coding	-3.30	2.39	8.78	0.00	0.04
ENSG00000167355	OR51B5	olfactory receptor family 51 subfamily B member 5 [Source:HGNC Symbol;Acc:HGNC:15736]			protein coding	-3.28	2.60	7.88	0.01	0.05	
ENSG00000112096	SOD2	superoxide dismutase 2 [Source:HGNC Symbol;Acc:HGNC:8852]			protein coding	3.28	4.96	19.25	0.00	0.00	
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]			protein coding	3.28	4.39	30.99	0.00	0.00	
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:29321]			protein coding	3.28	4.57	33.32	0.00	0.00	
ENSG00000167566	NCKAP5L	NCK associated protein 5 like [Source:HGNC Symbol;Acc:HGNC:13843]			protein coding	3.28	4.64	20.14	0.00	0.00	
ENSG00000114200	BCHE	butyrylcholinesterase [Source:HGNC Symbol;Acc:HGNC:16491]			Sym-	protein coding	-3.27	6.25	14.11	0.00	0.01
ENSG00000166821	PEX11A	peroxisomal biogenesis factor 11 alpha [Source:HGNC Symbol;Acc:HGNC:8852]			protein coding	-3.27	3.74	11.85	0.00	0.01	
ENSG00000243944	SLC51B	solute carrier family 51 beta subunit [Source:HGNC Symbol;Acc:HGNC:29956]			antisense	-3.27	2.54	8.39	0.00	0.04	
ENSG00000186198	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:17027]			protein coding	-3.26	3.70	15.69	0.00	0.00	
ENSG00000205903	CHD4	chromodomain helicase DNA binding protein 4 [Source:HGNC Symbol;Acc:HGNC:1919]			protein coding	3.26	6.55	22.63	0.00	0.00	
ENSG00000111642	SNORD124	small nucleolar RNA, C/D box 124 [Source:HGNC Symbol;Acc:HGNC:33563]			snoRNA	3.26	3.00	9.62	0.00	0.03	
ENSG00000186480	INSIG1	insulin induced gene 1 [Source:HGNC Symbol;Acc:HGNC:6083]			protein coding	-3.25	7.26	22.14	0.00	0.00	
ENSG00000112394	SLC16A10	solute carrier family 16 member 10 [Source:HGNC Symbol;Acc:HGNC:2313]			protein coding	-3.24	6.98	17.62	0.00	0.00	
ENSG00000178772	CPN2	carboxypeptidase N subunit 2 [Source:HGNC Symbol;Acc:HGNC:18553]			protein coding	-3.24	6.25	25.65	0.00	0.00	
ENSG00000102934	PLLP	plasmolipin [Source:HGNC Symbol;Acc:HGNC:16491]			Sym-	protein coding	-3.24	5.23	20.63	0.00	0.00
ENSG00000177595	PIDD1	p53-induced death domain protein 1 [Source:HGNC Symbol;Acc:HGNC:16491]			protein coding	3.23	3.66	20.70	0.00	0.00	

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ENSG00000047644	WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:HGNC:29237]	protein coding	3.23	2.10	8.20	0.00	0.04	
ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]	protein coding	-3.22	4.81	23.52	0.00	0.00	
ENSG00000144891	AGTR1	angiotensin II receptor type 1 [Source:HGNC Symbol;Acc:HGNC:336]	protein coding	-3.22	7.77	13.99	0.00	0.01	
ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	protein coding	3.22	6.37	36.29	0.00	0.00	
ENSG00000198853	RUSC2	RUN and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23625]	protein coding	3.21	5.02	22.51	0.00	0.00	
ENSG00000100014	SPECC1L	sperm antigen with calponin homology and coiled-coil domains 1 like [Source:HGNC Symbol;Acc:HGNC:29022]	protein coding	3.20	3.68	15.36	0.00	0.00	
ENSG00000185730	ZNF696	zinc finger protein 696 [Source:HGNC Symbol;Acc:HGNC:25872]	protein coding	3.20	3.32	13.49	0.00	0.01	
ENSG00000170099	SERPINA6	serpin family A member 6 [Source:HGNC Symbol;Acc:HGNC:1540]	protein coding	-3.20	7.89	21.73	0.00	0.00	
ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	3.20	5.54	30.79	0.00	0.00	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	protein coding	3.20	4.81	32.81	0.00	0.00	
ENSG00000248522	SBF1P1	SET binding factor 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:31098]	processed pseudogene	3.19	2.84	11.84	0.00	0.01	
ENSG00000111666	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:17852]	protein coding	-3.19	7.96	20.65	0.00	0.00	
ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]	protein coding	3.19	4.82	33.69	0.00	0.00	
ENSG00000135218	CD36	CD36 molecule [Source:HGNC Symbol;Acc:HGNC:1663]	protein coding	-3.19	3.56	12.91	0.00	0.01	
ENSG00000108950	FAM20A	FAM20A, golgi associated secretory pathway pseudokinase [Source:HGNC Symbol;Acc:HGNC:23015]	protein coding	-3.18	3.66	17.62	0.00	0.00	
ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]	protein coding	-3.18	8.89	16.69	0.00	0.00	
ENSG00000080618	CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]	protein coding	-3.17	8.92	15.36	0.00	0.00	
ENSG00000124568	SLC17A1	solute carrier family 17 member 1 [Source:HGNC Symbol;Acc:HGNC:10929]	protein coding	-3.17	5.83	12.47	0.00	0.01	
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	protein coding	3.16	6.17	36.16	0.00	0.00	
ENSG00000099194	SCD	stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:10571]	protein coding	-3.16	11.99	12.47	0.00	0.01	
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	protein coding	3.16	6.48	24.95	0.00	0.00	
ENSG00000114841	DNAH1	dynein axonemal heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:2940]	protein coding	3.16	2.30	9.58	0.00	0.03	

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ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]	protein coding	3.15	7.20	26.65	0.00	0.00	
ENSG00000131408	NR1H2	nuclear receptor subfamily 1 group H member 2 [Source:HGNC Symbol;Acc:HGNC:7965]	protein coding	3.14	4.05	23.04	0.00	0.00	
ENSG00000105697	HAMP	hepcidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:15598]	protein coding	3.14	2.70	9.15	0.00	0.03	
ENSG00000167780	SOAT2	sterol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:11178]	protein coding	-3.13	7.01	21.62	0.00	0.00	
ENSG00000143858	SYT2	synaptotagmin 2 [Source:HGNC Symbol;Acc:HGNC:11510]	protein coding	-3.13	6.53	19.06	0.00	0.00	
ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	protein coding	3.13	3.51	17.53	0.00	0.00	
ENSG00000124222	STX16	syntaxin 16 [Source:HGNC Symbol;Acc:HGNC:11431]	protein coding	3.13	2.54	10.67	0.00	0.02	
ENSG00000144035	NAT8	N-acetyltransferase 8 (putative) [Source:HGNC Symbol;Acc:HGNC:18069]	protein coding	-3.12	5.22	19.12	0.00	0.00	
ENSG00000085644	ZNF213	zinc finger protein 213 [Source:HGNC Symbol;Acc:HGNC:13005]	protein coding	3.12	3.37	14.68	0.00	0.00	
ENSG00000039537	C6	complement C6 [Source:HGNC Symbol;Acc:HGNC:1339]	protein coding	-3.11	4.57	9.59	0.00	0.03	
ENSG00000199266	SNORA60	small nucleolar RNA, H/ACA box 60 [Source:HGNC Symbol;Acc:HGNC:32654]	snoRNA	3.11	4.01	8.67	0.00	0.04	
ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	protein coding	3.11	7.73	29.23	0.00	0.00	
ENSG00000176155	CCDC57	coiled-coil domain containing 57 [Source:HGNC Symbol;Acc:HGNC:27564]	protein coding	3.11	3.30	9.64	0.00	0.03	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	3.11	6.13	42.59	0.00	0.00	
ENSG00000104936	DMPK	DM1 protein kinase [Source:HGNC Symbol;Acc:HGNC:2933]	protein coding	3.10	3.60	16.47	0.00	0.00	
ENSG00000173391	OLR1	oxidized low density lipoprotein receptor 1 [Source:HGNC Symbol;Acc:HGNC:8133]	protein coding	3.10	2.79	13.06	0.00	0.01	
ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]	protein coding	3.10	4.82	27.71	0.00	0.00	
ENSG00000253846	PCDHGA10	protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]	protein coding	-3.08	5.21	12.99	0.00	0.01	
ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]	processed transcript	3.08	3.06	13.88	0.00	0.01	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	3.08	7.15	41.29	0.00	0.00	
ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	protein coding	3.08	7.13	38.65	0.00	0.00	
ENSG00000111859	NEJD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	protein coding	3.08	4.02	25.24	0.00	0.00	

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ENSG00000226405		hydroxysteroid (17-beta) dehydrogenase 12	(HSD17B12) pseudogene		processed pseudo-gene	-3.07		3.03	8.54	0.00	0.04
ENSG00000196588	MRTFA	myocardin related transcription factor A	[Source:HGNC Symbol;Acc:HGNC:14334]		protein coding	3.07		5.71	34.03	0.00	0.00
ENSG00000228218	ATF4P3	activating transcription factor 4 pseudogene	3 [Source:HGNC Symbol;Acc:HGNC:788]		processed pseudo-gene	3.07		2.66	9.60	0.00	0.03
ENSG00000138639	ARHGAP24	Rho GTPase activating protein 24	[Source:HGNC Symbol;Acc:HGNC:25361]		protein coding	3.07		3.94	23.51	0.00	0.00
ENSG00000169562	GJB1	gap junction protein beta 1	[Source:HGNC Symbol;Acc:HGNC:4283]		protein coding	-3.07		6.95	26.18	0.00	0.00
ENSG00000175265	GOLGA8A	golgin A8 family member A	[Source:HGNC Symbol;Acc:HGNC:31972]		protein coding	3.07		1.97	8.30	0.00	0.04
ENSG00000146904	EPHA1	EPH receptor A1	[Source:HGNC Symbol;Acc:HGNC:3385]		protein coding	-3.07		2.42	8.37	0.00	0.04
ENSG00000139291	TMEM19	transmembrane protein 19	[Source:HGNC Symbol;Acc:HGNC:25605]		protein coding	-3.05		6.50	17.85	0.00	0.00
ENSG00000140548	ZNF710	zinc finger protein 710	[Source:HGNC Symbol;Acc:HGNC:25352]		protein coding	3.04		3.63	19.23	0.00	0.00
ENSG00000285943		novel protein			protein coding	3.04		3.76	11.03	0.00	0.02
ENSG0000010704	HFE	homeostatic iron regulator	[Source:HGNC Symbol;Acc:HGNC:4886]		protein coding	-3.04		4.85	15.88	0.00	0.00
ENSG00000235408	SNORA71B	small nucleolar RNA, H/ACA box 71B	[Source:HGNC Symbol;Acc:HGNC:10233]		snoRNA	3.04		5.54	10.34	0.00	0.02
ENSG00000188611	ASAH2	N-acylsphingosine amidohydrolase 2	[Source:HGNC Symbol;Acc:HGNC:18860]		protein coding	-3.04		5.17	18.21	0.00	0.00
ENSG00000088899	LZTS3	leucine zipper tumor suppressor family member 3	[Source:HGNC Symbol;Acc:HGNC:30139]		protein coding	3.04		5.88	26.91	0.00	0.00
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3	[Source:HGNC Symbol;Acc:HGNC:16253]		protein coding	-3.04		6.44	24.54	0.00	0.00
ENSG00000081051	AFP	alpha fetoprotein	[Source:HGNC Symbol;Acc:HGNC:317]		protein coding	-3.03		14.02	11.80	0.00	0.01
ENSG00000100665	SERPINA4	serpin family A member 4	[Source:HGNC Symbol;Acc:HGNC:8948]		protein coding	-3.03		6.74	22.07	0.00	0.00
ENSG00000110237	ARHGEF17	Rho guanine nucleotide exchange factor 17	[Source:HGNC Symbol;Acc:HGNC:21726]		protein coding	3.03		5.82	24.06	0.00	0.00
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61	[Source:HGNC Symbol;Acc:HGNC:2654]		protein coding	3.02		8.75	25.27	0.00	0.00
ENSG00000163521	GLB1L	galactosidase beta 1 like	[Source:HGNC Symbol;Acc:HGNC:28129]		protein coding	-3.02		3.25	9.79	0.00	0.03
ENSG00000126215	XRCC3	X-ray repair cross complementing 3	[Source:HGNC Symbol;Acc:HGNC:12830]		protein coding	3.02		2.68	13.59	0.00	0.01
ENSG0000011132	APBA3	amyloid beta precursor protein binding family A member 3	[Source:HGNC Symbol;Acc:HGNC:580]		protein coding	3.02		4.57	30.09	0.00	0.00

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ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	protein coding	3.02	5.83	28.40	0.00	0.00	
ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]	protein coding	3.01	5.77	29.95	0.00	0.00	
ENSG00000174358	SLC6A19	solute carrier family 6 member 19 [Source:HGNC Symbol;Acc:HGNC:27960]	protein coding	-3.01	6.46	21.27	0.00	0.00	
ENSG00000113205	PCDHB3	protocadherin beta 3 [Source:HGNC Symbol;Acc:HGNC:8688]	protein coding	-3.00	7.43	15.25	0.00	0.00	
ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	protein coding	3.00	6.66	32.42	0.00	0.00	
ENSG00000065361	ERBB3	erb-b2 receptor tyrosine kinase 3 [Source:HGNC Symbol;Acc:HGNC:3431]	protein coding	-3.00	8.66	17.36	0.00	0.00	
ENSG00000079557	AFM	afamin [Source:HGNC Symbol;Acc:HGNC:316]	protein coding	-3.00	4.25	16.34	0.00	0.00	
ENSG00000052802	MSMO1	methylsterol monooxygenase 1 [Source:HGNC Symbol;Acc:HGNC:10545]	protein coding	-3.00	11.91	10.48	0.00	0.02	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	2.99	5.85	23.43	0.00	0.00	
ENSG00000188338	SLC38A3	solute carrier family 38 member 3 [Source:HGNC Symbol;Acc:HGNC:18044]	protein coding	-2.99	6.47	19.01	0.00	0.00	
ENSG00000106526	ACTR3C	ARP3 actin related protein 3 homolog C [Source:HGNC Symbol;Acc:HGNC:37282]	protein coding	-2.99	3.70	13.93	0.00	0.01	
ENSG00000092929	UNC13D	unc-13 homolog D [Source:HGNC Symbol;Acc:HGNC:23147]	protein coding	2.98	2.13	8.04	0.00	0.05	
ENSG00000139793	MBNL2	muscleblind like splicing regulator 2 [Source:HGNC Symbol;Acc:HGNC:16746]	protein coding	2.97	6.16	35.90	0.00	0.00	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	2.97	3.27	12.64	0.00	0.01	
ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]	processed transcript	2.97	6.45	28.22	0.00	0.00	
ENSG00000179399	GPC5	glypican 5 [Source:HGNC Symbol;Acc:HGNC:4453]	protein coding	-2.97	4.08	9.70	0.00	0.03	
ENSG00000263528	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon [Source:HGNC Symbol;Acc:HGNC:14552]	protein coding	2.96	4.40	25.22	0.00	0.00	
ENSG00000079432	CIC	capicua transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:14214]	protein coding	2.95	6.07	22.41	0.00	0.00	
ENSG00000073849	ST6GAL1	ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10860]	protein coding	-2.95	8.35	16.14	0.00	0.00	
ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	protein coding	2.95	5.80	17.94	0.00	0.00	
ENSG00000064225	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]	protein coding	-2.94	5.62	13.78	0.00	0.01	
ENSG00000266184		ubiquitin fusion degradation 1 like (yeast) (UFD1L) pseudogene	processed pseudogene	-2.94	2.84	10.05	0.00	0.02	

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ENSG00000122884	P4HA1	prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:8546]	protein coding	-2.94	9.42	12.38	0.00	0.01	
ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]	protein coding	-2.93	7.90	13.45	0.00	0.01	
ENSG00000099937	SERPIND1	serpin family D member 1 [Source:HGNC Symbol;Acc:HGNC:4838]	protein coding	-2.93	9.09	15.37	0.00	0.00	
ENSG00000158186	MRAS	muscle RAS oncogene homolog [Source:HGNC Symbol;Acc:HGNC:7227]	protein coding	2.93	3.70	18.13	0.00	0.00	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.93	6.24	34.09	0.00	0.00	
ENSG00000180758	GPR157	G protein-coupled receptor 157 [Source:HGNC Symbol;Acc:HGNC:23687]	protein coding	-2.93	3.85	11.28	0.00	0.01	
ENSG00000138308	PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]	protein coding	-2.92	6.01	21.14	0.00	0.00	
ENSG00000156869	FRRS1	ferric chelate reductase 1 [Source:HGNC Symbol;Acc:HGNC:27622]	protein coding	-2.92	8.91	14.50	0.00	0.00	
ENSG00000113492	AGXT2	alanine-glyoxylate aminotransferase 2 [Source:HGNC Symbol;Acc:HGNC:14412]	protein coding	-2.92	4.05	17.33	0.00	0.00	
ENSG00000123358	NR4A1	nuclear receptor subfamily 4 group A member 1 [Source:HGNC Symbol;Acc:HGNC:7980]	protein coding	2.92	2.63	8.22	0.00	0.04	
ENSG00000177669	MBOAT4	membrane bound O-acyltransferase domain containing 4 [Source:HGNC Symbol;Acc:HGNC:32311]	protein coding	-2.91	5.31	17.79	0.00	0.00	
ENSG00000128039	SRD5A3	steroid 5 alpha-reductase 3 [Source:HGNC Symbol;Acc:HGNC:25812]	protein coding	-2.91	4.26	12.32	0.00	0.01	
ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	protein coding	-2.91	8.29	11.71	0.00	0.01	
ENSG00000066697	MSANTD3	Myb/SANT DNA binding domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23370]	protein coding	2.90	4.53	24.94	0.00	0.00	
ENSG00000169155	ZBTB43	zinc finger and BTB domain containing 43 [Source:HGNC Symbol;Acc:HGNC:17908]	protein coding	2.90	4.04	15.08	0.00	0.00	
ENSG00000223658	C1GALT1C1L	C1GALT1 specific chaperone 1 like [Source:HGNC Symbol;Acc:HGNC:51617]	protein coding	-2.90	4.14	9.98	0.00	0.02	
ENSG00000201470	RNY4P7	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	misc RNA	2.90	8.55	10.49	0.00	0.02	
ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]	protein coding	-2.90	7.79	14.08	0.00	0.01	
ENSG00000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]	protein coding	-2.89	6.00	19.16	0.00	0.00	
ENSG00000099814	CEP170B	centrosomal protein 170B [Source:HGNC Symbol;Acc:HGNC:20362]	protein coding	2.89	6.26	20.26	0.00	0.00	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	2.89	8.23	28.12	0.00	0.00	
ENSG00000150893	FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:25396]	protein coding	-2.89	6.68	11.87	0.00	0.01	
ENSG00000186205	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:HGNC:26189]	protein coding	-2.89	6.54	24.76	0.00	0.00	

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ENSG00000232380	ZDHHC20P4	zinc finger DHHC-type containing 20 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:39776]	processed pseudo-gene	-2.88	4.20	9.11	0.00	0.03	
ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	protein coding	-2.88	6.00	18.13	0.00	0.00	
ENSG00000149577	SIDT2	SID1 transmembrane family member 2 [Source:HGNC Symbol;Acc:HGNC:24272]	protein coding	-2.88	5.88	16.14	0.00	0.00	
ENSG00000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]	protein coding	-2.87	8.12	12.79	0.00	0.01	
ENSG00000058668	ATP2B4	ATPase plasma membrane Ca2+ transporting 4 [Source:HGNC Symbol;Acc:HGNC:817]	protein coding	-2.87	6.77	14.20	0.00	0.00	
ENSG00000135503	ACVR1B	activin A receptor type 1B [Source:HGNC Symbol;Acc:HGNC:172]	protein coding	-2.87	7.41	14.41	0.00	0.00	
ENSG00000088386	SLC15A1	solute carrier family 15 member 1 [Source:HGNC Symbol;Acc:HGNC:10920]	protein coding	-2.87	4.59	13.56	0.00	0.01	
ENSG00000070214	SLC44A1	solute carrier family 44 member 1 [Source:HGNC Symbol;Acc:HGNC:18798]	protein coding	-2.86	8.04	15.75	0.00	0.00	
ENSG00000008394	MGST1	microsomal glutathione S-transferase 1 [Source:HGNC Symbol;Acc:HGNC:7061]	protein coding	-2.86	12.27	10.97	0.00	0.02	
ENSG00000111261	MANSC1	MANSC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25505]	protein coding	-2.86	6.46	14.16	0.00	0.00	
ENSG00000146676	PURB	purine rich element binding protein B [Source:HGNC Symbol;Acc:HGNC:9702]	protein coding	2.86	3.03	15.08	0.00	0.00	
ENSG00000111319	SCNN1A	sodium channel epithelial 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:10599]	protein coding	-2.86	3.88	11.98	0.00	0.01	
ENSG00000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	protein coding	2.85	3.23	13.77	0.00	0.01	
ENSG00000180694	TMEM64	transmembrane protein 64 [Source:HGNC Symbol;Acc:HGNC:25441]	protein coding	-2.85	5.79	16.69	0.00	0.00	
ENSG00000125503	PPP1R12C	protein phosphatase 1 regulatory subunit 12C [Source:HGNC Symbol;Acc:HGNC:14947]	protein coding	2.85	4.97	21.19	0.00	0.00	
ENSG00000113889	KNG1	kininogen 1 [Source:HGNC Symbol;Acc:HGNC:6383]	protein coding	-2.85	6.01	13.42	0.00	0.01	
ENSG00000136155	SCEL	scillin [Source:HGNC Symbol;Acc:HGNC:10573]	protein coding	2.85	3.21	14.46	0.00	0.00	
ENSG00000270170	NCBP2-AS2	NCBP2 antisense RNA 2 (head to head) [Source:HGNC Symbol;Acc:HGNC:25121]	protein coding	-2.85	2.81	10.38	0.00	0.02	
ENSG00000138109	CYP2C9	cytochrome P450 family 2 subfamily C member 9 [Source:HGNC Symbol;Acc:HGNC:2623]	protein coding	-2.85	3.27	8.63	0.00	0.04	
ENSG00000189058	APOD	apolipoprotein D [Source:HGNC Symbol;Acc:HGNC:612]	protein coding	-2.85	4.84	10.85	0.00	0.02	
ENSG00000142279	WTIP	WT1 interacting protein [Source:HGNC Symbol;Acc:HGNC:20964]	protein coding	2.85	3.22	13.73	0.00	0.01	
ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]	protein coding	2.84	5.04	21.67	0.00	0.00	

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ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	protein coding	2.83	3.94	19.21	0.00	0.00	
ENSG00000204387	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:HGNC:19078]	protein coding	2.83	6.18	27.35	0.00	0.00	
ENSG00000145911	N4BP3	NEDD4 binding protein 3 [Source:HGNC Symbol;Acc:HGNC:29852]	protein coding	2.83	2.79	8.96	0.00	0.03	
ENSG00000144278	GALNT13	polypeptide N-acetylgalactosaminyltransferase 13 [Source:HGNC Symbol;Acc:HGNC:23242]	protein coding	-2.83	5.41	17.32	0.00	0.00	
ENSG00000170571	EMB	embigin [Source:HGNC Symbol;Acc:HGNC:30465]	protein coding	-2.82	3.10	9.25	0.00	0.03	
ENSG00000113100	CDH9	cadherin 9 [Source:HGNC Symbol;Acc:HGNC:1768]	protein coding	-2.82	3.34	7.94	0.00	0.05	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	2.82	6.30	31.17	0.00	0.00	
ENSG00000156860	FBR5	fibrosin [Source:HGNC Symbol;Acc:HGNC:20442]	protein coding	2.82	5.44	28.94	0.00	0.00	
ENSG00000101974	ATP11C	ATPase phospholipid transporting 11C [Source:HGNC Symbol;Acc:HGNC:13554]	protein coding	-2.81	6.63	12.84	0.00	0.01	
ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]	protein coding	-2.81	11.40	10.82	0.00	0.02	
ENSG00000137496	IL18BP	interleukin 18 binding protein [Source:HGNC Symbol;Acc:HGNC:5987]	protein coding	2.81	2.48	9.75	0.00	0.03	
ENSG00000139508	SLC46A3	solute carrier family 46 member 3 [Source:HGNC Symbol;Acc:HGNC:27501]	protein coding	-2.81	4.73	10.97	0.00	0.02	
ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]	protein coding	2.81	5.22	34.30	0.00	0.00	
ENSG00000186376	ZNF75D	zinc finger protein 75D [Source:HGNC Symbol;Acc:HGNC:13145]	protein coding	2.80	2.52	9.60	0.00	0.03	
ENSG00000101216	GMEB2	glucocorticoid modulatory element binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4371]	protein coding	2.80	6.15	24.43	0.00	0.00	
ENSG00000140093	SERPINA10	serpin family A member 10 [Source:HGNC Symbol;Acc:HGNC:15996]	protein coding	-2.80	4.86	14.33	0.00	0.00	
ENSG00000110697	PITPNM1	phosphatidylinositol transfer protein membrane associated 1 [Source:HGNC Symbol;Acc:HGNC:9003]	protein coding	2.79	6.14	20.98	0.00	0.00	
ENSG00000131470	PSMC3IP	PSMC3 interacting protein [Source:HGNC Symbol;Acc:HGNC:17928]	protein coding	2.79	2.68	8.33	0.00	0.04	
ENSG00000061273	HDAC7	histone deacetylase 7 [Source:HGNC Symbol;Acc:HGNC:14067]	protein coding	2.79	5.38	22.89	0.00	0.00	
ENSG00000151366	NDUFC2	NADH:ubiquinone oxidoreductase subunit C2 [Source:HGNC Symbol;Acc:HGNC:7706]	protein coding	-2.79	4.59	24.06	0.00	0.00	
ENSG00000169814	BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]	protein coding	-2.79	7.83	16.94	0.00	0.00	
ENSG00000249948	GBA3	glucosylceramidase beta 3 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:19069]	polymorphic pseudogene	-2.79	2.79	9.15	0.00	0.03	

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ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]	protein coding	-2.79	6.31	17.89	0.00	0.00	
ENSG00000110031	LPXN	leupaxin [Source:HGNC Symbol;Acc:HGNC:14061]	protein coding	2.78	2.36	7.89	0.00	0.05	
ENSG00000234964	FABP5P7	fatty acid binding protein 5 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:31070]	processed pseudo-gene	-2.78	2.46	8.32	0.00	0.04	
ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	protein coding	2.78	2.97	11.86	0.00	0.01	
ENSG00000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]	protein coding	-2.78	6.63	26.64	0.00	0.00	
ENSG00000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]	protein coding	-2.77	6.86	24.20	0.00	0.00	
ENSG00000135220	UGT2A3	UDP glucuronosyltransferase family 2 member A3 [Source:HGNC Symbol;Acc:HGNC:28528]	protein coding	-2.77	6.14	17.12	0.00	0.00	
ENSG00000204616	TRIM31	tripartite motif containing 31 [Source:HGNC Symbol;Acc:HGNC:16289]	protein coding	2.77	4.83	27.70	0.00	0.00	
ENSG00000182107	TMEM30B	transmembrane protein 30B [Source:HGNC Symbol;Acc:HGNC:27254]	protein coding	-2.77	2.91	10.22	0.00	0.02	
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	protein coding	2.77	4.74	28.63	0.00	0.00	
ENSG00000171234	UGT2B7	UDP glucuronosyltransferase family 2 member B7 [Source:HGNC Symbol;Acc:HGNC:12554]	protein coding	-2.77	4.26	9.05	0.00	0.03	
ENSG00000244389	RN7SL242P	RNA, 7SL, cytoplasmic 242, pseudogene [Source:HGNC Symbol;Acc:HGNC:46258]	misc RNA	2.76	3.49	8.99	0.00	0.03	
ENSG00000100321	SYNGR1	synaptogyrin 1 [Source:HGNC Symbol;Acc:HGNC:11498]	protein coding	-2.76	3.82	10.25	0.00	0.02	
ENSG00000139209	SLC38A4	solute carrier family 38 member 4 [Source:HGNC Symbol;Acc:HGNC:14679]	protein coding	-2.75	6.03	14.24	0.00	0.00	
ENSG00000158457	TSPAN33	tetraspanin 33 [Source:HGNC Symbol;Acc:HGNC:28743]	protein coding	-2.75	3.48	8.61	0.00	0.04	
ENSG00000163293	NIPAL1	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]	protein coding	-2.75	5.45	12.03	0.00	0.01	
ENSG00000056736	IL17RB	interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:18015]	protein coding	-2.75	7.15	16.53	0.00	0.00	
ENSG00000116005	PCYOX1	prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:HGNC:20588]	protein coding	-2.74	8.38	13.72	0.00	0.01	
ENSG00000115255	REEP6	receptor accessory protein 6 [Source:HGNC Symbol;Acc:HGNC:30078]	protein coding	-2.74	9.46	16.97	0.00	0.00	
ENSG00000236764	COX7A2P2	cytochrome c oxidase subunit 7A2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:2290]	processed pseudo-gene	-2.74	3.97	13.34	0.00	0.01	
ENSG00000146067	FAM193B	family with sequence similarity 193 member B [Source:HGNC Symbol;Acc:HGNC:25524]	protein coding	2.74	4.75	20.28	0.00	0.00	
ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]	protein coding	2.74	6.88	20.00	0.00	0.00	

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ENSG0000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	protein coding	2.74	7.43	30.81	0.00	0.00	
ENSG0000116704	SLC35D1	solute carrier family 35 member D1 [Source:HGNC Symbol;Acc:HGNC:20800]	protein coding	-2.74	7.80	14.22	0.00	0.00	
ENSG0000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]	protein coding	2.74	3.97	15.74	0.00	0.00	
ENSG0000010810	FYN	FYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4037]	protein coding	-2.74	3.84	16.14	0.00	0.00	
ENSG0000250722	SELENOP	selenoprotein P [Source:HGNC Symbol;Acc:HGNC:10751]	protein coding	-2.73	10.00	13.06	0.00	0.01	
ENSG0000213918	DNASE1	deoxyribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:2956]	protein coding	2.73	3.26	9.06	0.00	0.03	
ENSG0000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	2.73	5.04	27.39	0.00	0.00	
ENSG0000141429	GALNT1	polypeptide N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4123]	protein coding	-2.73	8.41	11.99	0.00	0.01	
ENSG0000089127	OAS1	2'-5'-oligoadenylate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:8086]	protein coding	2.73	5.14	16.80	0.00	0.00	
ENSG0000167378	IRGQ	immunity related GTPase Q [Source:HGNC Symbol;Acc:HGNC:24868]	protein coding	2.73	6.79	22.86	0.00	0.00	
ENSG0000106266	SNX8	sorting nexin 8 [Source:HGNC Symbol;Acc:HGNC:14972]	protein coding	2.73	6.44	24.00	0.00	0.00	
ENSG0000119977	TCTN3	tectonic family member 3 [Source:HGNC Symbol;Acc:HGNC:24519]	protein coding	-2.72	6.47	16.21	0.00	0.00	
ENSG0000141337	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102]	protein coding	-2.72	2.72	9.38	0.00	0.03	
ENSG0000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	protein coding	2.72	4.37	22.17	0.00	0.00	
ENSG0000099219	ERMP1	endoplasmic reticulum metallopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:23703]	protein coding	-2.72	7.97	13.60	0.00	0.01	
ENSG0000114638	UPK1B	uroplakin 1B [Source:HGNC Symbol;Acc:HGNC:12578]	protein coding	-2.72	8.64	18.55	0.00	0.00	
ENSG0000197977	ELOVL2	ELOVL fatty acid elongase 2 [Source:HGNC Symbol;Acc:HGNC:14416]	protein coding	-2.72	7.02	14.74	0.00	0.00	
ENSG0000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	protein coding	-2.72	3.73	15.85	0.00	0.00	
ENSG0000257704	INAFM1	InaF motif containing 1 [Source:HGNC Symbol;Acc:HGNC:27406]	protein coding	2.71	3.04	13.25	0.00	0.01	
ENSG0000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]	protein coding	2.71	5.28	24.75	0.00	0.00	
ENSG0000205213	LGR4	leucine rich repeat containing G protein-coupled receptor 4 [Source:HGNC Symbol;Acc:HGNC:13299]	protein coding	-2.71	9.00	11.12	0.00	0.02	
ENSG0000114771	AADAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc:HGNC:17]	protein coding	-2.70	8.16	14.67	0.00	0.00	
ENSG0000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	protein coding	2.70	5.69	20.64	0.00	0.00	

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ENSG00000171992	SYNPO	synaptopodin [Source:HGNC Symbol;Acc:HGNC:30672]	Sym-	protein coding	2.70		5.56	27.95	0.00	0.00	
ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]		protein coding	2.70		6.64	21.61	0.00	0.00	
ENSG00000197608	ZNF841	zinc finger protein 841 [Source:HGNC Symbol;Acc:HGNC:27611]	Sym-	protein coding	2.70		4.00	19.85	0.00	0.00	
ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]		protein coding	-2.70		9.89	10.37	0.00	0.02	
ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]	Sym-	protein coding	-2.70		6.04	13.59	0.00	0.01	
ENSG00000107984	DKK1	dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:2891]		protein coding	-2.69		9.95	12.43	0.00	0.01	
ENSG00000138744	NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:HGNC:736]		protein coding	-2.69		6.02	19.97	0.00	0.00	
ENSG00000251136				lincRNA	2.69		2.62	8.67	0.00	0.04	
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	Sym-	protein coding	2.69		5.81	25.02	0.00	0.00	
ENSG00000196743	GM2A	GM2 ganglioside activator [Source:HGNC Symbol;Acc:HGNC:4367]		protein coding	-2.68		6.88	15.70	0.00	0.00	
ENSG00000100403	ZC3H7B	zinc finger CCCH-type containing 7B [Source:HGNC Symbol;Acc:HGNC:30869]	Sym-	protein coding	2.68		6.94	24.37	0.00	0.00	
ENSG00000079313	REXO1	RNA exonuclease 1 homolog [Source:HGNC Symbol;Acc:HGNC:24616]		protein coding	2.68		5.38	16.21	0.00	0.00	
ENSG00000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]		protein coding	-2.68		11.48	9.31	0.00	0.03	
ENSG00000123179	EBPL	EBP like [Source:HGNC Symbol;Acc:HGNC:18061]		protein coding	-2.67		8.10	16.07	0.00	0.00	
ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	Sym-	protein coding	2.67		7.42	27.43	0.00	0.00	
ENSG00000113594	LIFR	LIF receptor alpha [Source:HGNC Symbol;Acc:HGNC:6597]		protein coding	-2.67		7.50	12.48	0.00	0.01	
ENSG00000200354	SNORA71D	small nucleolar RNA, H/ACA box 71D [Source:HGNC Symbol;Acc:HGNC:32657]		snoRNA	2.67		5.98	12.17	0.00	0.01	
ENSG00000142494	SLC47A1	solute carrier family 47 member 1 [Source:HGNC Symbol;Acc:HGNC:25588]		protein coding	-2.67		5.69	18.02	0.00	0.00	
ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]		protein coding	2.66		2.66	9.13	0.00	0.03	
ENSG00000101417	PXMP4	peroxisomal membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15920]		protein coding	-2.66		5.36	27.49	0.00	0.00	
ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]		protein coding	2.66		4.17	16.65	0.00	0.00	
ENSG00000134569	LRP4	LDL receptor related protein 4 [Source:HGNC Symbol;Acc:HGNC:6696]		protein coding	-2.65		5.58	14.49	0.00	0.00	
ENSG00000138823	MTTP	microsomal triglyceride transfer protein [Source:HGNC Symbol;Acc:HGNC:7467]	Sym-	protein coding	-2.65		10.70	11.32	0.00	0.01	

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ENSG00000218891	ZNF579	zinc finger protein 579 [Source:HGNC Symbol;Acc:HGNC:26646]	579	[Source:HGNC Symbol;Acc:HGNC:26646]	Sym-	protein coding	2.65	3.74	15.89	0.00	0.00	
ENSG00000143819	EPHX1	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]	1	[Source:HGNC Symbol;Acc:HGNC:3401]	Sym-	protein coding	-2.65	8.50	15.02	0.00	0.00	
ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]				protein coding	-2.64	8.04	12.41	0.00	0.01	
ENSG00000163795	ZNF513	zinc finger protein 513 [Source:HGNC Symbol;Acc:HGNC:26498]	513	[Source:HGNC Symbol;Acc:HGNC:26498]	Sym-	protein coding	2.64	2.47	10.38	0.00	0.02	
ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]	1	[Source:HGNC Symbol;Acc:HGNC:44670]	Sym-	protein coding	-2.64	7.82	17.55	0.00	0.00	
ENSG00000160446	ZDHHC12	zinc finger DHHC-type containing 12 [Source:HGNC Symbol;Acc:HGNC:19159]				protein coding	-2.64	4.65	15.19	0.00	0.00	
ENSG00000080493	SLC4A4	solute carrier family 4 member 4 [Source:HGNC Symbol;Acc:HGNC:11030]				protein coding	-2.64	5.89	12.48	0.00	0.01	
ENSG00000172197	MBOAT1	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]				protein coding	-2.64	4.74	12.78	0.00	0.01	
ENSG00000117151	CTBS	chitobiase [Source:HGNC Symbol;Acc:HGNC:2496]				protein coding	-2.64	4.99	12.49	0.00	0.01	
ENSG00000162430	SELENON	selenoprotein N [Source:HGNC Symbol;Acc:HGNC:15999]	N	[Source:HGNC Symbol;Acc:HGNC:15999]	Sym-	protein coding	-2.63	4.39	13.74	0.00	0.01	
ENSG00000158079	PTPDC1	protein tyrosine phosphatase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:30184]				protein coding	2.63	2.73	9.58	0.00	0.03	
ENSG00000197989	SNHG12	small nucleolar RNA host gene 12 [Source:HGNC Symbol;Acc:HGNC:30062]				antisense	2.62	4.36	16.10	0.00	0.00	
ENSG00000232956	SNHG15	small nucleolar RNA host gene 15 [Source:HGNC Symbol;Acc:HGNC:27797]				lncRNA	2.62	5.76	15.77	0.00	0.00	
ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]				protein coding	2.62	4.16	15.58	0.00	0.00	
ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]				protein coding	-2.62	7.83	15.21	0.00	0.00	
ENSG00000205356	TECPR1	tectonin beta-propeller repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:22214]				protein coding	2.62	4.91	13.93	0.00	0.01	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]				protein coding	2.62	5.69	21.61	0.00	0.00	
ENSG00000165655	ZNF503	zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23589]	503	[Source:HGNC Symbol;Acc:HGNC:23589]	Sym-	protein coding	2.62	3.47	11.51	0.00	0.01	
ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]				protein coding	2.62	3.30	12.61	0.00	0.01	
ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]				protein coding	-2.61	4.91	13.37	0.00	0.01	
ENSG00000099949	LZTR1	leucine zipper like transcription regulator 1 [Source:HGNC Symbol;Acc:HGNC:6742]				protein coding	2.61	3.70	14.03	0.00	0.01	
ENSG0000006007	GDE1	glycerophosphodiester phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:29644]				protein coding	-2.61	5.22	16.29	0.00	0.00	
ENSG00000157570	TSPAN18	tetraspanin 18 [Source:HGNC Symbol;Acc:HGNC:20660]	18	[Source:HGNC Symbol;Acc:HGNC:20660]	Sym-	protein coding	-2.61	4.55	13.06	0.00	0.01	

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ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]	protein coding	2.61	4.96	12.03	0.00	0.01	
ENSG00000158865	SLC5A11	solute carrier family 5 member 11 [Source:HGNC Symbol;Acc:HGNC:23091]	protein coding	-2.61	4.48	16.96	0.00	0.00	
ENSG00000143434	SEMA6C	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	protein coding	-2.60	4.54	11.09	0.00	0.02	
ENSG00000117906	RCN2	reticulocalbin 2 [Source:HGNC Symbol;Acc:HGNC:9935]	protein coding	-2.60	8.64	9.75	0.00	0.03	
ENSG00000135929	CYP27A1	cytochrome P450 family 27 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2605]	protein coding	-2.60	6.86	15.36	0.00	0.00	
ENSG00000263934	SNORD3A	small nucleolar RNA, C/D box 3A [Source:HGNC Symbol;Acc:HGNC:33189]	snoRNA	2.60	4.98	8.82	0.00	0.04	
ENSG00000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]	protein coding	2.59	4.13	21.72	0.00	0.00	
ENSG00000137103	TMEM8B	transmembrane protein 8B [Source:HGNC Symbol;Acc:HGNC:21427]	protein coding	-2.59	3.24	9.43	0.00	0.03	
ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	lincRNA	-2.59	4.42	13.96	0.00	0.01	
ENSG00000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]	protein coding	2.59	7.78	16.72	0.00	0.00	
ENSG00000141485	SLC13A5	solute carrier family 13 member 5 [Source:HGNC Symbol;Acc:HGNC:23089]	protein coding	-2.59	5.66	19.09	0.00	0.00	
ENSG00000173930	SLCO4C1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	protein coding	-2.59	6.19	13.75	0.00	0.01	
ENSG00000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]	protein coding	-2.58	8.39	11.84	0.00	0.01	
ENSG00000238936	SNORD65B	small nucleolar RNA, C/D box 65B [Source:HGNC Symbol;Acc:HGNC:52231]	snoRNA	2.58	2.84	9.93	0.00	0.02	
ENSG00000071655	MBD3	methyl-CpG binding domain protein 3 [Source:HGNC Symbol;Acc:HGNC:6918]	protein coding	2.58	5.61	18.43	0.00	0.00	
ENSG00000176273	SLC35G1	solute carrier family 35 member G1 [Source:HGNC Symbol;Acc:HGNC:26607]	protein coding	-2.58	6.11	18.24	0.00	0.00	
ENSG00000187867	PALM3	paralemmin 3 [Source:HGNC Symbol;Acc:HGNC:33274]	protein coding	-2.58	3.30	10.84	0.00	0.02	
ENSG00000163874	ZC3H12A	zinc finger CCCH-type containing 12A [Source:HGNC Symbol;Acc:HGNC:26259]	protein coding	2.58	2.59	10.53	0.00	0.02	
ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	protein coding	2.57	2.68	9.71	0.00	0.03	
ENSG00000113161	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase [Source:HGNC Symbol;Acc:HGNC:5006]	protein coding	-2.57	10.71	8.61	0.00	0.04	
ENSG00000173409	ARV1	ARV1 homolog, fatty acid homeostasis modulator [Source:HGNC Symbol;Acc:HGNC:29561]	protein coding	-2.57	4.58	10.68	0.00	0.02	
ENSG00000140092	FBLN5	fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]	protein coding	-2.57	6.26	13.10	0.00	0.01	
ENSG00000131323	TRAF3	TNF receptor associated factor 3 [Source:HGNC Symbol;Acc:HGNC:12033]	protein coding	2.57	5.02	18.67	0.00	0.00	

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ENSG0000074410	CA12	carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:1371]	Sym-	protein coding		-2.57		5.79		20.16	0.00	0.00
ENSG0000118900	UBN1	ubinuclein 1 [Source:HGNC Symbol;Acc:HGNC:12506]	Sym-	protein coding		2.57		5.69		19.75	0.00	0.00
ENSG0000170522	ELOVL6	ELOVL fatty acid elongase 6 [Source:HGNC Symbol;Acc:HGNC:15829]	Sym-	protein coding		-2.56		6.91		13.51	0.00	0.01
ENSG0000207031	SNORD59A	small nucleolar RNA, C/D box 59A [Source:HGNC Symbol;Acc:HGNC:10210]		snoRNA		2.56		4.98		11.84	0.00	0.01
ENSG0000100441	KHYN	KH and NYN domain containing [Source:HGNC Symbol;Acc:HGNC:20166]		protein coding		2.56		3.78		14.76	0.00	0.00
ENSG0000117834	SLC5A9	solute carrier family 5 member 9 [Source:HGNC Symbol;Acc:HGNC:22146]		protein coding		-2.55		3.41		9.23	0.00	0.03
ENSG0000172817	CYP7B1	cytochrome P450 family 7 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2652]		protein coding		-2.55		4.62		12.31	0.00	0.01
ENSG0000108582	CPD	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]		protein coding		-2.55		10.05		10.01	0.00	0.02
ENSG0000149084	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646]		protein coding		-2.54		8.00		11.88	0.00	0.01
ENSG0000164946	FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:HGNC:23399]		protein coding		-2.54		4.41		12.70	0.00	0.01
ENSG0000066027	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha [Source:HGNC Symbol;Acc:HGNC:9309]		protein coding		-2.54		3.89		14.26	0.00	0.00
ENSG0000060566	CREB3L3	cAMP responsive element binding protein 3 like 3 [Source:HGNC Symbol;Acc:HGNC:18855]		protein coding		-2.54		7.64		13.91	0.00	0.01
ENSG0000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]		protein coding		2.53		2.99		9.35	0.00	0.03
ENSG0000066813	ACSM2B	acyl-CoA synthetase medium chain family member 2B [Source:HGNC Symbol;Acc:HGNC:30931]		protein coding		-2.53		3.72		8.59	0.00	0.04
ENSG0000131845	ZNF304	zinc finger protein 304 [Source:HGNC Symbol;Acc:HGNC:13505]		protein coding		2.53		3.77		11.53	0.00	0.01
ENSG0000135631	RAB11FIP5	RAB11 family interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:24845]		protein coding		2.53		4.89		16.82	0.00	0.00
ENSG0000284976		novel RING finger protein		protein coding		2.52		3.39		12.98	0.00	0.01
ENSG0000141994	DUS3L	dihydrouridine synthase 3 like [Source:HGNC Symbol;Acc:HGNC:26920]		protein coding		2.52		4.14		16.38	0.00	0.00
ENSG0000106460	TMEM106B	transmembrane protein 106B [Source:HGNC Symbol;Acc:HGNC:22407]		protein coding		-2.52		7.59		11.24	0.00	0.01
ENSG0000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]		protein coding		-2.52		6.07		10.54	0.00	0.02
ENSG0000219532	SELENOKP2	selenoprotein K pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:53725]		processed pseudo-gene		2.52		2.80		10.11	0.00	0.02
ENSG0000166188	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:HGNC:13644]		protein coding		2.52		3.13		10.18	0.00	0.02

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ENSG00000060642	PIGV	phosphatidylinositol glycan anchor biosynthesis class V [Source:HGNC Symbol;Acc:HGNC:26031]	protein coding	-2.52	5.26	10.68	0.00	0.02	
ENSG00000233225		single stranded DNA binding protein 3 (SSBP3) pseudogene	processed pseudo-gene	-2.52	3.18	8.39	0.00	0.04	
ENSG00000129932	DOHH	deoxyhypusine hydroxylase [Source:HGNC Symbol;Acc:HGNC:28662]	protein coding	2.52	4.99	17.73	0.00	0.00	
ENSG00000226549	SCDP1	stearoyl-CoA desaturase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10572]	processed pseudo-gene	-2.52	6.69	19.38	0.00	0.00	
ENSG00000069943	PIGB	phosphatidylinositol glycan anchor biosynthesis class B [Source:HGNC Symbol;Acc:HGNC:8959]	protein coding	-2.52	5.06	9.54	0.00	0.03	
ENSG00000152952	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]	protein coding	-2.51	11.27	9.05	0.00	0.03	
ENSG00000099364	FBXL19	F-box and leucine rich repeat protein 19 [Source:HGNC Symbol;Acc:HGNC:25300]	protein coding	2.51	4.24	11.51	0.00	0.01	
ENSG00000178297	TMPRSS9	transmembrane serine protease 9 [Source:HGNC Symbol;Acc:HGNC:30079]	protein coding	2.51	3.28	10.39	0.00	0.02	
ENSG00000131389	SLC6A6	solute carrier family 6 member 6 [Source:HGNC Symbol;Acc:HGNC:11052]	protein coding	-2.51	8.77	11.62	0.00	0.01	
ENSG00000119927	GPAM	glycerol-3-phosphate acyltransferase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:24865]	protein coding	-2.51	5.07	13.47	0.00	0.01	
ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]	protein coding	-2.51	6.84	17.86	0.00	0.00	
ENSG00000213949	ITGA1	integrin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6134]	protein coding	-2.51	8.42	8.72	0.00	0.04	
ENSG00000166012	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:HGNC Symbol;Acc:HGNC:28759]	protein coding	2.51	6.70	27.60	0.00	0.00	
ENSG00000148204	CRB2	crumbs 2, cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:18688]	protein coding	-2.51	3.77	9.19	0.00	0.03	
ENSG00000145882	PCYOX1L	prenylcysteine oxidase 1 like [Source:HGNC Symbol;Acc:HGNC:28477]	protein coding	-2.50	4.76	13.01	0.00	0.01	
ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	protein coding	2.50	6.33	21.42	0.00	0.00	
ENSG00000103326	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182]	protein coding	2.50	6.16	17.31	0.00	0.00	
ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	protein coding	2.50	6.49	28.04	0.00	0.00	
ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]	protein coding	-2.50	8.10	11.83	0.00	0.01	
ENSG00000126603	GLIS2	GLIS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:29450]	protein coding	2.50	2.53	9.39	0.00	0.03	
ENSG00000142910	TINAGL1	tubulointerstitial nephritis antigen like 1 [Source:HGNC Symbol;Acc:HGNC:19168]	protein coding	-2.50	3.43	8.38	0.00	0.04	

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ENSG00000084453	SLCO1A2	solute carrier organic anion transporter family member 1A2 [Source:HGNC Symbol;Acc:HGNC:10956]	protein coding	-2.50	5.30	10.67	0.00	0.02	
ENSG00000145192	AHSG	alpha 2-HS glycoprotein [Source:HGNC Symbol;Acc:HGNC:349]	protein coding	-2.49	8.11	11.09	0.00	0.02	
ENSG00000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]	protein coding	-2.49	2.74	8.67	0.00	0.04	
ENSG00000180448	ARHGAP45	Rho GTPase activating protein 45 [Source:HGNC Symbol;Acc:HGNC:17102]	protein coding	2.49	5.45	18.23	0.00	0.00	
ENSG00000154511	DIPK1A	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]	protein coding	-2.49	7.20	10.37	0.00	0.02	
ENSG00000171560	FGA	fibrinogen alpha chain [Source:HGNC Symbol;Acc:HGNC:3661]	protein coding	-2.49	13.91	9.79	0.00	0.03	
ENSG00000113249	HAVCR1	hepatitis A virus cellular receptor 1 [Source:HGNC Symbol;Acc:HGNC:17866]	protein coding	-2.49	9.78	10.81	0.00	0.02	
ENSG00000088035	ALG6	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23157]	protein coding	-2.48	7.36	11.48	0.00	0.01	
ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	protein coding	2.48	4.74	22.78	0.00	0.00	
ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	protein coding	2.48	6.29	23.69	0.00	0.00	
ENSG00000198743	SLC5A3	solute carrier family 5 member 3 [Source:HGNC Symbol;Acc:HGNC:11038]	protein coding	-2.48	6.98	10.88	0.00	0.02	
ENSG00000083857	FAT1	FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:HGNC:3595]	protein coding	-2.48	8.47	9.48	0.00	0.03	
ENSG00000134824	FADS2	fatty acid desaturase 2 [Source:HGNC Symbol;Acc:HGNC:3575]	protein coding	-2.48	9.89	8.95	0.00	0.03	
ENSG00000105497	ZNF175	zinc finger protein 175 [Source:HGNC Symbol;Acc:HGNC:12964]	protein coding	2.48	3.38	8.67	0.00	0.04	
ENSG00000105854	PON2	paraoxonase 2 [Source:HGNC Symbol;Acc:HGNC:9205]	protein coding	-2.48	9.38	12.24	0.00	0.01	
ENSG00000162460	TMEM82	transmembrane protein 82 [Source:HGNC Symbol;Acc:HGNC:32350]	protein coding	-2.48	3.75	10.56	0.00	0.02	
ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	protein coding	2.48	5.43	18.91	0.00	0.00	
ENSG00000091513	TF	transferrin [Source:HGNC Symbol;Acc:HGNC:11740]	protein coding	-2.47	12.39	10.33	0.00	0.02	
ENSG00000077616	NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2 [Source:HGNC Symbol;Acc:HGNC:14526]	protein coding	-2.47	5.70	12.78	0.00	0.01	
ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	protein coding	2.47	5.51	21.46	0.00	0.00	
ENSG00000172594	SMPDL3A	sphingomyelin phosphodiesterase acid like 3A [Source:HGNC Symbol;Acc:HGNC:17389]	protein coding	-2.47	7.58	14.58	0.00	0.00	
ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]	protein coding	2.46	4.13	15.11	0.00	0.00	
ENSG00000110881	ASIC1	acid sensing ion channel subunit 1 [Source:HGNC Symbol;Acc:HGNC:100]	protein coding	-2.46	3.28	7.96	0.00	0.05	

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ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	protein coding	2.46	4.19	17.38	0.00	0.00	
ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]	protein coding	2.46	6.86	19.28	0.00	0.00	
ENSG00000163399	ATP1A1	ATPase Na ⁺ /K ⁺ transporting subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:799]	protein coding	-2.46	11.22	9.91	0.00	0.02	
ENSG00000109929	SC5D	sterol-C5-desaturase [Source:HGNC Symbol;Acc:HGNC:10547]	protein coding	-2.46	8.44	8.84	0.00	0.04	
ENSG00000146112	PPP1R18	protein phosphatase 1 regulatory subunit 18 [Source:HGNC Symbol;Acc:HGNC:29413]	protein coding	2.45	3.82	15.24	0.00	0.00	
ENSG00000168509	HJV	hemojuvelin BMP co-receptor [Source:HGNC Symbol;Acc:HGNC:4887]	protein coding	-2.45	3.38	11.46	0.00	0.01	
ENSG00000075399	VPS9D1	VPS9 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13526]	protein coding	2.45	4.23	13.89	0.00	0.01	
ENSG00000258754	LINC01579	long intergenic non-protein coding RNA 1579 [Source:HGNC Symbol;Acc:HGNC:27519]	lincRNA	2.45	2.88	9.69	0.00	0.03	
ENSG00000113645	WWC1	WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29435]	protein coding	2.45	6.19	15.90	0.00	0.00	
ENSG00000112818	MEP1A	mephrin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]	protein coding	-2.45	7.35	13.76	0.00	0.01	
ENSG00000198026	ZNF335	zinc finger protein 335 [Source:HGNC Symbol;Acc:HGNC:15807]	protein coding	2.45	5.53	15.41	0.00	0.00	
ENSG00000154997	SEPT14	septin 14 [Source:HGNC Symbol;Acc:HGNC:33280]	protein coding	-2.45	3.04	9.15	0.00	0.03	
ENSG00000185347	TEDC1	tubulin epsilon and delta complex 1 [Source:HGNC Symbol;Acc:HGNC:20127]	protein coding	2.45	3.28	12.24	0.00	0.01	
ENSG00000169174	PCSK9	proprotein convertase subtilisin/kexin type 9 [Source:HGNC Symbol;Acc:HGNC:20001]	protein coding	-2.45	8.23	14.32	0.00	0.00	
ENSG00000149809	TM7SF2	transmembrane 7 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11863]	protein coding	-2.45	6.02	13.35	0.00	0.01	
ENSG00000115525	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:10872]	protein coding	-2.44	3.85	9.55	0.00	0.03	
ENSG00000167994	RAB3IL1	RAB3A interacting protein like 1 [Source:HGNC Symbol;Acc:HGNC:9780]	protein coding	2.44	4.40	13.29	0.00	0.01	
ENSG00000125827	TMX4	thioredoxin related transmembrane protein 4 [Source:HGNC Symbol;Acc:HGNC:25237]	protein coding	-2.44	6.98	12.33	0.00	0.01	
ENSG00000156140	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	protein coding	-2.44	5.34	11.18	0.00	0.02	
ENSG00000167080	B4GALNT2	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:24136]	protein coding	-2.44	4.33	14.29	0.00	0.00	
ENSG00000104866	PPP1R37	protein phosphatase 1 regulatory subunit 37 [Source:HGNC Symbol;Acc:HGNC:27607]	protein coding	2.44	4.93	18.74	0.00	0.00	
ENSG00000204946	ZNF783	zinc finger family member 783 [Source:HGNC Symbol;Acc:HGNC:27222]	protein coding	2.43	2.71	8.72	0.00	0.04	
ENSG00000197410	DCHS2	dachshous cadherin-related 2 [Source:HGNC Symbol;Acc:HGNC:23111]	protein coding	-2.43	7.61	11.14	0.00	0.02	

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ENSG00000103168	TAF1C	TATA-box binding protein associated factor, RNA polymerase I subunit C [Source:HGNC Symbol;Acc:HGNC:11534]	protein coding	2.43	5.22	15.31	0.00	0.00	
ENSG00000135678	CPM	carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311]	protein coding	-2.43	6.46	12.38	0.00	0.01	
ENSG00000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]	protein coding	2.43	5.21	10.73	0.00	0.02	
ENSG00000154370	TRIM11	tripartite motif containing 11 [Source:HGNC Symbol;Acc:HGNC:16281]	protein coding	2.43	4.81	21.54	0.00	0.00	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	2.43	6.82	22.60	0.00	0.00	
ENSG00000143278	F13B	coagulation factor XIII B chain [Source:HGNC Symbol;Acc:HGNC:3534]	protein coding	-2.43	6.85	10.24	0.00	0.02	
ENSG00000141526	SLC16A3	solute carrier family 16 member 3 [Source:HGNC Symbol;Acc:HGNC:10924]	protein coding	-2.42	6.38	13.52	0.00	0.01	
ENSG00000111199	TRPV4	transient receptor potential cation channel subfamily V member 4 [Source:HGNC Symbol;Acc:HGNC:18083]	protein coding	-2.42	4.73	10.16	0.00	0.02	
ENSG00000164647	STEAP1	STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:11378]	protein coding	-2.42	6.47	10.11	0.00	0.02	
ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	protein coding	2.42	7.05	25.22	0.00	0.00	
ENSG00000271707	ATP1B3P1	ATPase Na+/K+ transporting subunit beta 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:807]	processed pseudogene	-2.42	5.42	10.92	0.00	0.02	
ENSG00000105321	CCDC9	coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:HGNC:24560]	protein coding	2.41	4.34	11.15	0.00	0.02	
ENSG00000162694	EXTL2	exostosin like glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3516]	protein coding	-2.41	6.52	10.10	0.00	0.02	
ENSG00000079150	FKBP7	FK506 binding protein 7 [Source:HGNC Symbol;Acc:HGNC:3723]	protein coding	-2.41	6.43	11.59	0.00	0.01	
ENSG00000233588	CYP51A1P2	cytochrome P450 family 51 subfamily A member 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:20251]	processed pseudogene	-2.41	6.27	9.31	0.00	0.03	
ENSG00000180592	SKIDA1	SKI/DACH domain containing 1 [Source:HGNC Symbol;Acc:HGNC:32697]	protein coding	-2.41	2.83	8.63	0.00	0.04	
ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	protein coding	2.41	6.04	26.80	0.00	0.00	
ENSG00000147155	EBP	EBP, cholestenol delta-isomerase [Source:HGNC Symbol;Acc:HGNC:3133]	protein coding	-2.41	10.83	11.87	0.00	0.01	
ENSG00000267796	LIN37	lin-37 DREAM MuvB core complex component [Source:HGNC Symbol;Acc:HGNC:33234]	protein coding	2.41	2.77	8.11	0.00	0.05	
ENSG00000135736	CCDC102A	coiled-coil domain containing 102A [Source:HGNC Symbol;Acc:HGNC:28097]	protein coding	2.41	3.85	11.64	0.00	0.01	
ENSG00000118046	STK11	serine/threonine kinase 11 [Source:HGNC Symbol;Acc:HGNC:11389]	protein coding	2.40	5.82	19.47	0.00	0.00	

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ENSG00000007545	CRAMP1	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]	protein coding	2.40	3.01	8.54	0.00	0.04	
ENSG0000142409	ZNF787	zinc finger protein 787 [Source:HGNC Symbol;Acc:HGNC:26998]	protein coding	2.40	5.69	21.53	0.00	0.00	
ENSG0000198393	ZNF26	zinc finger protein 26 [Source:HGNC Symbol;Acc:HGNC:13053]	protein coding	2.40	3.29	11.44	0.00	0.01	
ENSG00000006042	TMEM98	transmembrane protein 98 [Source:HGNC Symbol;Acc:HGNC:24529]	protein coding	-2.40	6.68	14.10	0.00	0.01	
ENSG0000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	protein coding	2.40	4.51	13.63	0.00	0.01	
ENSG0000274211	SOCS7	suppressor of cytokine signaling 7 [Source:HGNC Symbol;Acc:HGNC:29846]	protein coding	2.40	2.93	8.26	0.00	0.04	
ENSG0000157087	ATP2B2	ATPase plasma membrane Ca2+ transporting 2 [Source:HGNC Symbol;Acc:HGNC:815]	protein coding	-2.40	4.32	10.04	0.00	0.02	
ENSG0000128272	ATF4	activating transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:786]	protein coding	2.39	8.37	17.67	0.00	0.00	
ENSG0000181026	AEN	apoptosis enhancing nuclease [Source:HGNC Symbol;Acc:HGNC:25722]	protein coding	2.39	4.41	15.27	0.00	0.00	
ENSG0000117298	ECE1	endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:HGNC:3146]	protein coding	-2.39	9.58	12.44	0.00	0.01	
ENSG0000170271	FAXDC2	fatty acid hydroxylase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1334]	protein coding	-2.39	5.02	12.81	0.00	0.01	
ENSG0000151388	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif 12 [Source:HGNC Symbol;Acc:HGNC:14605]	protein coding	-2.39	5.98	14.51	0.00	0.00	
ENSG0000197563	PIGN	phosphatidylinositol glycan anchor biosynthesis class N [Source:HGNC Symbol;Acc:HGNC:8967]	protein coding	-2.39	6.36	11.30	0.00	0.01	
ENSG0000159164	SV2A	synaptic vesicle glycoprotein 2A [Source:HGNC Symbol;Acc:HGNC:20566]	protein coding	-2.39	4.56	9.98	0.00	0.02	
ENSG0000104549	SQLE	squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:11279]	protein coding	-2.39	9.14	8.08	0.00	0.05	
ENSG0000091583	APOH	apolipoprotein H [Source:HGNC Symbol;Acc:HGNC:616]	protein coding	-2.39	8.09	10.85	0.00	0.02	
ENSG00000000003	TSPAN6	tetraspanin 6 [Source:HGNC Symbol;Acc:HGNC:11858]	protein coding	-2.38	8.51	11.71	0.00	0.01	
ENSG0000110400	NECTIN1	nectin cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:9706]	protein coding	-2.38	5.76	13.35	0.00	0.01	
ENSG0000134962	KLB	klotho beta [Source:HGNC Symbol;Acc:HGNC:15527]	protein coding	-2.38	9.02	12.32	0.00	0.01	
ENSG0000163710	PCOLCE2	procollagen C-endopeptidase enhancer 2 [Source:HGNC Symbol;Acc:HGNC:8739]	protein coding	-2.38	6.96	12.54	0.00	0.01	
ENSG0000107789	MINPP1	multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:7102]	protein coding	-2.38	7.26	13.48	0.00	0.01	
ENSG0000207523	SNORA66	small nucleolar RNA, H/ACA box 66 [Source:HGNC Symbol;Acc:HGNC:10223]	snoRNA	2.38	6.55	13.69	0.00	0.01	
ENSG0000173402	DAG1	dystroglycan 1 [Source:HGNC Symbol;Acc:HGNC:2666]	protein coding	-2.37	9.23	11.63	0.00	0.01	

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ENSG00000163378	EOGT	EGF domain specific acetylglucosamine transferase [Source:HGNC Symbol;Acc:HGNC:28526]	O-linked N-acetylglycosamine transferase	[Source:HGNC Symbol;Acc:HGNC:775]	[Source:HGNC Symbol;Acc:HGNC:26053]	[Source:HGNC Symbol;Acc:HGNC:23475]	protein coding	-2.37	5.45	11.09	0.00	0.02	
ENSG00000117601	SERPINC1	serpin family C member 1	[Source:HGNC Symbol;Acc:HGNC:775]	protein coding	-2.37	6.25	14.01	0.00	0.01				
ENSG00000113272	THG1L	tRNA-histidine guanylyltransferase 1	like	protein coding	2.37	4.18	11.81	0.00	0.01				
ENSG00000213185	FAM24B	family with sequence similarity 24 member B	[Source:HGNC Symbol;Acc:HGNC:23475]	protein coding	2.37	3.25	11.40	0.00	0.01				
ENSG0000070018	LRP6	LDL receptor related protein 6	[Source:HGNC Symbol;Acc:HGNC:6698]	protein coding	-2.36	8.35	8.60	0.00	0.04				
ENSG00000147257	GPC3	glypican 3	[Source:HGNC Symbol;Acc:HGNC:4451]	protein coding	-2.36	12.11	8.26	0.00	0.04				
ENSG00000100241	SBF1	SET binding factor 1	[Source:HGNC Symbol;Acc:HGNC:10542]	protein coding	2.36	7.52	13.18	0.00	0.01				
ENSG00000105656	ELL	elongation factor for RNA polymerase II	[Source:HGNC Symbol;Acc:HGNC:23114]	protein coding	2.36	4.40	17.57	0.00	0.00				
ENSG00000238227	TMEM250	transmembrane protein 250	[Source:HGNC Symbol;Acc:HGNC:31009]	protein coding	2.36	3.17	11.10	0.00	0.02				
ENSG00000163823	CCR1	C-C motif chemokine receptor 1	[Source:HGNC Symbol;Acc:HGNC:1602]	protein coding	-2.36	3.79	8.74	0.00	0.04				
ENSG00000156162	DPY19L4	dpy-19 like 4	[Source:HGNC Symbol;Acc:HGNC:27829]	protein coding	-2.36	6.91	8.60	0.00	0.04				
ENSG00000162065	TBC1D24	TBC1 domain family member 24	[Source:HGNC Symbol;Acc:HGNC:29203]	protein coding	2.36	2.81	8.55	0.00	0.04				
ENSG00000106771	TMEM245	transmembrane protein 245	[Source:HGNC Symbol;Acc:HGNC:1363]	protein coding	-2.36	7.99	9.86	0.00	0.02				
ENSG00000100473	COCH	cochlin	[Source:HGNC Symbol;Acc:HGNC:2180]	protein coding	-2.36	6.01	14.82	0.00	0.00				
ENSG00000126461	SCAF1	SR-related CTD associated factor 1	[Source:HGNC Symbol;Acc:HGNC:30403]	protein coding	2.35	6.49	16.10	0.00	0.00				
ENSG00000169550	MUC15	mucin 15, cell surface associated	[Source:HGNC Symbol;Acc:HGNC:14956]	protein coding	-2.35	4.79	10.47	0.00	0.02				
ENSG00000105298	CACTIN	cactin, spliceosome C complex subunit	[Source:HGNC Symbol;Acc:HGNC:29938]	protein coding	2.35	4.18	17.73	0.00	0.00				
ENSG00000087301	TXNDC16	thioredoxin domain containing 16	[Source:HGNC Symbol;Acc:HGNC:19965]	protein coding	-2.35	5.35	9.84	0.00	0.02				
ENSG00000163661	PTX3	pentraxin 3	[Source:HGNC Symbol;Acc:HGNC:9692]	protein coding	2.35	3.82	12.68	0.00	0.01				
ENSG00000105852	PON3	paraoxonase 3	[Source:HGNC Symbol;Acc:HGNC:9206]	protein coding	-2.35	6.71	11.53	0.00	0.01				
ENSG00000162714	ZNF496	zinc finger protein 496	[Source:HGNC Symbol;Acc:HGNC:23713]	protein coding	2.35	4.54	20.15	0.00	0.00				
ENSG00000157399	ARSE	arylsulfatase E	[Source:HGNC Symbol;Acc:HGNC:719]	protein coding	-2.35	9.93	10.90	0.00	0.02				

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ENSG00000096092	TMEM14A	transmembrane protein 14A [Source:HGNC Symbol;Acc:HGNC:21076]	Sym-	protein coding	-2.34	8.40	11.57	0.00	0.01		
ENSG00000175283	DOLK	dolichol kinase [Source:HGNC Symbol;Acc:HGNC:23406]	Sym-	protein coding	-2.34	6.68	11.35	0.00	0.01		
ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]	Sym-	protein coding	-2.34	9.09	9.57	0.00	0.03		
ENSG00000167992	VWCE	von Willebrand factor C and EGF domains [Source:HGNC Symbol;Acc:HGNC:26487]	Sym-	protein coding	-2.34	5.70	16.23	0.00	0.00		
ENSG00000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]	Sym-	protein coding	2.34	3.31	8.68	0.00	0.04		
ENSG00000129474	AJUBA	ajuba LIM protein [Source:HGNC Symbol;Acc:HGNC:20250]	Sym-	protein coding	2.34	7.55	20.29	0.00	0.00		
ENSG00000139055	ERP27	endoplasmic reticulum protein 27 [Source:HGNC Symbol;Acc:HGNC:26495]	Sym-	protein coding	-2.34	5.70	10.66	0.00	0.02		
ENSG00000135862	LAMC1	laminin subunit gamma 1 [Source:HGNC Symbol;Acc:HGNC:6492]	Sym-	protein coding	-2.34	9.97	9.31	0.00	0.03		
ENSG00000123838	C4BPA	complement component 4 binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1325]	Sym-	protein coding	-2.34	5.85	8.57	0.00	0.04		
ENSG00000112787	FBRSL1	fibrosin like 1 [Source:HGNC Symbol;Acc:HGNC:29308]	Sym-	protein coding	2.34	5.15	22.98	0.00	0.00		
ENSG00000143153	ATP1B1	ATPase Na+/K+ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]	Sym-	protein coding	-2.34	9.91	9.48	0.00	0.03		
ENSG00000112852	PCDHB2	protocadherin beta 2 [Source:HGNC Symbol;Acc:HGNC:8687]	Sym-	protein coding	-2.34	4.28	9.54	0.00	0.03		
ENSG00000139292	LGR5	leucine rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:HGNC:4504]	Sym-	protein coding	-2.33	5.96	8.53	0.00	0.04		
ENSG00000198369	SPRED2	sprouty related EVH1 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17722]	Sym-	protein coding	2.33	4.14	17.96	0.00	0.00		
ENSG00000171365	CLCN5	chloride voltage-gated channel 5 [Source:HGNC Symbol;Acc:HGNC:2023]	Sym-	protein coding	-2.33	8.42	9.12	0.00	0.03		
ENSG00000076351	SLC46A1	solute carrier family 46 member 1 [Source:HGNC Symbol;Acc:HGNC:30521]	Sym-	protein coding	-2.33	4.64	13.66	0.00	0.01		
ENSG00000138798	EGF	epidermal growth factor [Source:HGNC Symbol;Acc:HGNC:3229]	Sym-	protein coding	-2.33	6.85	12.37	0.00	0.01		
ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	Sym-	protein coding	2.33	6.79	22.43	0.00	0.00		
ENSG00000197142	ACSL5	acyl-CoA synthetase long chain family member 5 [Source:HGNC Symbol;Acc:HGNC:16526]	Sym-	protein coding	-2.33	5.08	9.99	0.00	0.02		
ENSG00000106665	CLIP2	CAP-Gly domain containing linker protein 2 [Source:HGNC Symbol;Acc:HGNC:2586]	Sym-	protein coding	2.33	5.63	18.80	0.00	0.00		
ENSG00000225190	PLEKHM1	pleckstrin homology and RUN domain containing M1 [Source:HGNC Symbol;Acc:HGNC:29017]	Sym-	protein coding	2.33	2.94	9.44	0.00	0.03		
ENSG00000049239	H6PD	hexose-6-phosphate dehydrogenase/gucose 1-dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4795]	Sym-	protein coding	-2.33	5.55	10.83	0.00	0.02		

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ENSG00000257017	HP	haptoglobin [Source:HGNC Symbol;Acc:HGNC:5141]	protein coding	-2.33	5.47	9.45	0.00	0.03	
ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	protein coding	2.33	3.10	10.87	0.00	0.02	
ENSG00000174684	B4GAT1	beta-1,4-glucuronidyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]	protein coding	-2.32	7.94	18.66	0.00	0.00	
ENSG00000151790	TDO2	tryptophan 2,3-dioxygenase [Source:HGNC Symbol;Acc:HGNC:11708]	protein coding	-2.32	4.03	12.62	0.00	0.01	
ENSG00000163686	ABHD6	abhydrolase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:21398]	protein coding	-2.32	5.27	14.94	0.00	0.00	
ENSG00000139800	ZIC5	Zic family member 5 [Source:HGNC Symbol;Acc:HGNC:20322]	protein coding	2.32	2.62	7.87	0.01	0.05	
ENSG00000145217	SLC26A1	solute carrier family 26 member 1 [Source:HGNC Symbol;Acc:HGNC:10993]	protein coding	-2.32	7.19	9.58	0.00	0.03	
ENSG00000134538	SLCO1B1	solute carrier organic anion transporter family member 1B1 [Source:HGNC Symbol;Acc:HGNC:10959]	protein coding	-2.32	3.73	8.65	0.00	0.04	
ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]	protein coding	-2.32	5.56	20.66	0.00	0.00	
ENSG00000137491	SLCO2B1	solute carrier organic anion transporter family member 2B1 [Source:HGNC Symbol;Acc:HGNC:10962]	protein coding	-2.32	6.95	15.54	0.00	0.00	
ENSG00000171227	TMEM37	transmembrane protein 37 [Source:HGNC Symbol;Acc:HGNC:18216]	protein coding	-2.32	6.59	16.72	0.00	0.00	
ENSG00000135317	SNX14	sorting nexin 14 [Source:HGNC Symbol;Acc:HGNC:14977]	protein coding	-2.32	8.36	10.66	0.00	0.02	
ENSG00000179832	MROH1	maestro heat like repeat family member 1 [Source:HGNC Symbol;Acc:HGNC:26958]	protein coding	2.32	4.47	11.86	0.00	0.01	
ENSG00000115084	SLC35F5	solute carrier family 35 member F5 [Source:HGNC Symbol;Acc:HGNC:23617]	protein coding	-2.32	8.54	8.70	0.00	0.04	
ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]	protein coding	-2.31	9.30	11.12	0.00	0.02	
ENSG00000223959	AFG3L1P	AFG3 like matrix AAA peptidase subunit 1, pseudogene [Source:HGNC Symbol;Acc:HGNC:314]	transcribed unitary pseudo-gene	2.31	2.84	8.73	0.00	0.04	
ENSG00000149177	PTPRJ	protein tyrosine phosphatase, receptor type J [Source:HGNC Symbol;Acc:HGNC:9673]	protein coding	-2.31	6.06	10.91	0.00	0.02	
ENSG00000116786	PLEKHM2	pleckstrin homology and RUN domain containing M2 [Source:HGNC Symbol;Acc:HGNC:29131]	protein coding	2.31	5.82	19.78	0.00	0.00	
ENSG00000112893	MAN2A1	mannosidase alpha class 2A member 1 [Source:HGNC Symbol;Acc:HGNC:6824]	protein coding	-2.31	9.24	8.33	0.00	0.04	
ENSG00000134243	SORT1	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]	protein coding	-2.31	7.87	11.45	0.00	0.01	
ENSG00000253223		PRP3 pre-mRNA processing factor 3 homolog (S. cerevisiae) (PRPF3) pseudogene	processed pseudo-gene	2.31	3.12	11.19	0.00	0.01	

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ENSG00000177082	WDR73	WD repeat domain 73 [Source:HGNC Symbol;Acc:HGNC:25928]	protein coding	2.31	3.71	12.85	0.00	0.01	
ENSG00000170540	ARL6IP1	ADP ribosylation factor like GTPase 6 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:697]	protein coding	-2.31	5.21	12.70	0.00	0.01	
ENSG00000135916	ITM2C	integral membrane protein 2C [Source:HGNC Symbol;Acc:HGNC:6175]	protein coding	-2.31	8.06	9.56	0.00	0.03	
ENSG00000070778	PTPN21	protein tyrosine phosphatase, non-receptor type 21 [Source:HGNC Symbol;Acc:HGNC:9651]	protein coding	2.31	3.54	10.39	0.00	0.02	
ENSG00000168096	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29422]	protein coding	2.30	3.74	10.48	0.00	0.02	
ENSG00000181722	ZBTB20	zinc finger and BTB domain containing 20 [Source:HGNC Symbol;Acc:HGNC:13503]	protein coding	2.30	5.79	22.33	0.00	0.00	
ENSG00000171161	ZNF672	zinc finger protein 672 [Source:HGNC Symbol;Acc:HGNC:26179]	protein coding	2.30	4.12	15.74	0.00	0.00	
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	protein coding	2.30	6.39	16.64	0.00	0.00	
ENSG00000198246	SLC29A3	solute carrier family 29 member 3 [Source:HGNC Symbol;Acc:HGNC:23096]	protein coding	-2.29	5.78	15.86	0.00	0.00	
ENSG00000163626	COX18	cytochrome c oxidase assembly factor COX18 [Source:HGNC Symbol;Acc:HGNC:26801]	protein coding	-2.29	4.17	14.05	0.00	0.01	
ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	protein coding	2.29	4.15	10.28	0.00	0.02	
ENSG00000231345	BEND3P1	BEN domain containing 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45014]	transcribed processed pseudo-gene	2.29	2.71	8.56	0.00	0.04	
ENSG0000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]	protein coding	-2.29	9.51	10.77	0.00	0.02	
ENSG00000163631	ALB	albumin [Source:HGNC Symbol;Acc:HGNC:399]	protein coding	-2.29	11.27	10.67	0.00	0.02	
ENSG00000224550		NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa (NDUFA4) pseudogene	processed pseudo-gene	-2.29	7.77	14.19	0.00	0.00	
ENSG00000067704	IARS2	isoleucyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:29685]	protein coding	-2.29	8.61	11.41	0.00	0.01	
ENSG00000176826	FKBP9P1	FK506 binding protein 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23568]	transcribed unprocessed pseudo-gene	-2.29	4.80	12.43	0.00	0.01	
ENSG00000134802	SLC43A3	solute carrier family 43 member 3 [Source:HGNC Symbol;Acc:HGNC:17466]	protein coding	-2.28	6.14	13.57	0.00	0.01	
ENSG00000100564	PIGH	phosphatidylinositol glycan anchor biosynthesis class H [Source:HGNC Symbol;Acc:HGNC:8964]	protein coding	-2.28	4.28	10.31	0.00	0.02	
ENSG00000116815	CD58	CD58 molecule [Source:HGNC Symbol;Acc:HGNC:1688]	protein coding	-2.28	4.98	9.46	0.00	0.03	

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ENSG00000146433	TMEM181	transmembrane protein 181 [Source:HGNC Symbol;Acc:HGNC:20958]	protein coding	-2.28	7.50	9.73	0.00	0.03	
ENSG00000138759	FRAS1	Fraser extracellular matrix complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:19185]	protein coding	-2.28	8.47	9.64	0.00	0.03	
ENSG00000143554	SLC27A3	solute carrier family 27 member 3 [Source:HGNC Symbol;Acc:HGNC:10997]	protein coding	-2.28	5.44	15.13	0.00	0.00	
ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]	protein coding	-2.28	7.93	14.60	0.00	0.00	
ENSG00000074696	HACD3	3-hydroxyacyl-CoA dehydratase 3 [Source:HGNC Symbol;Acc:HGNC:24175]	protein coding	-2.28	10.09	9.13	0.00	0.03	
ENSG00000143815	LBR	lamin B receptor [Source:HGNC Symbol;Acc:HGNC:6518]	protein coding	-2.27	9.09	8.37	0.00	0.04	
ENSG00000155760	FZD7	frizzled class receptor 7 [Source:HGNC Symbol;Acc:HGNC:4045]	protein coding	-2.27	5.96	11.81	0.00	0.01	
ENSG00000087111	PIGS	phosphatidylinositol glycan anchor biosynthesis class S [Source:HGNC Symbol;Acc:HGNC:14937]	protein coding	-2.27	7.10	13.42	0.00	0.01	
ENSG00000111670	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta [Source:HGNC Symbol;Acc:HGNC:29670]	protein coding	-2.27	6.20	11.65	0.00	0.01	
ENSG00000129636	ITFG1	integrin alpha FG-GAP repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:30697]	protein coding	-2.27	7.33	10.18	0.00	0.02	
ENSG00000152990	ADGRA3	adhesion G protein-coupled receptor A3 [Source:HGNC Symbol;Acc:HGNC:13839]	protein coding	-2.27	7.36	9.74	0.00	0.03	
ENSG00000172469	MANEA	mannosidase endo-alpha [Source:HGNC Symbol;Acc:HGNC:21072]	protein coding	-2.27	6.25	8.87	0.00	0.04	
ENSG00000109762	SNX25	sorting nexin 25 [Source:HGNC Symbol;Acc:HGNC:21883]	protein coding	-2.27	3.27	8.08	0.00	0.05	
ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:2646]	protein coding	-2.27	4.86	13.20	0.00	0.01	
ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]	protein coding	-2.26	7.77	13.90	0.00	0.01	
ENSG00000176209	SMIM19	small integral membrane protein 19 [Source:HGNC Symbol;Acc:HGNC:25166]	protein coding	-2.26	5.68	12.43	0.00	0.01	
ENSG00000121057	AKAP1	A-kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:367]	protein coding	-2.26	7.69	12.49	0.00	0.01	
ENSG00000196700	ZNF512B	zinc finger protein 512B [Source:HGNC Symbol;Acc:HGNC:29212]	protein coding	2.26	5.37	15.85	0.00	0.00	
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	protein coding	2.26	5.86	23.93	0.00	0.00	
ENSG00000185800	DMWD	DM1 locus, WD repeat containing [Source:HGNC Symbol;Acc:HGNC:2936]	protein coding	2.26	3.61	8.29	0.00	0.04	
ENSG00000110245	APOC3	apolipoprotein C3 [Source:HGNC Symbol;Acc:HGNC:610]	protein coding	-2.26	7.90	11.95	0.00	0.01	
ENSG00000143653	SCCPDH	saccharopine dehydrogenase (putative) [Source:HGNC Symbol;Acc:HGNC:24275]	protein coding	-2.26	7.77	13.10	0.00	0.01	

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ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]	Sym-	protein coding	-2.25	8.81	11.92	0.00	0.01		
ENSG00000085871	MGST2	microsomal glutathione S-transferase 2 [Source:HGNC Symbol;Acc:HGNC:7063]	Sym-	protein coding	-2.25	8.74	12.90	0.00	0.01		
ENSG00000129911	KLF16	Kruppel like factor 16 [Source:HGNC Symbol;Acc:HGNC:16857]	Sym-	protein coding	2.25	4.87	12.58	0.00	0.01		
ENSG00000175899	A2M	alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7]	Sym-	protein coding	-2.25	8.94	8.41	0.00	0.04		
ENSG00000177119	ANO6	anoctamin 6 [Source:HGNC Symbol;Acc:HGNC:25240]	Sym-	protein coding	-2.25	8.84	8.73	0.00	0.04		
ENSG00000187676	B3GLCT	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	Sym-	protein coding	-2.24	4.89	8.27	0.00	0.04		
ENSG00000122378	PRXL2A	peroxiredoxin like 2A [Source:HGNC Symbol;Acc:HGNC:28651]	Sym-	protein coding	-2.24	6.97	9.35	0.00	0.03		
ENSG00000157933	SKI	SKI proto-oncogene [Source:HGNC Symbol;Acc:HGNC:10896]	Sym-	protein coding	2.24	4.71	19.68	0.00	0.00		
ENSG00000108846	ABCC3	ATP binding cassette subfamily C member 3 [Source:HGNC Symbol;Acc:HGNC:54]	protein coding	-2.24	6.06	12.71	0.00	0.01			
ENSG00000151233	GXYLT1	glucoside xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:27482]	protein coding	-2.24	6.76	10.75	0.00	0.02			
ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]	Sym-	protein coding	2.24	3.87	10.51	0.00	0.02		
ENSG00000149573	MPZL2	myelin protein zero like 2 [Source:HGNC Symbol;Acc:HGNC:3496]	Sym-	protein coding	-2.24	7.47	14.97	0.00	0.00		
ENSG00000181588	MEX3D	mex-3 RNA binding family member D [Source:HGNC Symbol;Acc:HGNC:16734]	protein coding	2.24	6.03	22.99	0.00	0.00			
ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]	protein coding	-2.24	5.95	21.59	0.00	0.00			
ENSG00000121005	CRISPLD1	cysteine rich secretory protein LCCL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18206]	protein coding	-2.24	6.11	12.27	0.00	0.01			
ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5 [Source:HGNC Symbol;Acc:HGNC:3367]	protein coding	-2.23	7.70	14.37	0.00	0.00			
ENSG00000151834	GABRA2	gamma-aminobutyric acid type A receptor alpha2 subunit [Source:HGNC Symbol;Acc:HGNC:4076]	protein coding	-2.23	4.70	10.06	0.00	0.02			
ENSG00000177169	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:HGNC:12558]	protein coding	2.23	5.83	17.86	0.00	0.00			
ENSG0000005471	ABCB4	ATP binding cassette subfamily B member 4 [Source:HGNC Symbol;Acc:HGNC:45]	protein coding	-2.23	6.00	8.07	0.00	0.05			
ENSG00000054983	GALC	galactosylceramidase [Source:HGNC Symbol;Acc:HGNC:4115]	Sym-	protein coding	-2.23	7.00	12.16	0.00	0.01		
ENSG00000038382	TRIO	trio Rho guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:12303]	protein coding	2.23	5.74	16.46	0.00	0.00			
ENSG00000119185	ITGB1BP1	integrin subunit beta 1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:23927]	protein coding	-2.23	4.44	17.94	0.00	0.00			
ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]	protein coding	-2.23	6.21	9.28	0.00	0.03			

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ENSG00000178301	AQP11	aquaporin 11 [Source:HGNC Symbol;Acc:HGNC:19940]	Symbol	[Source:HGNC Symbol;Acc:HGNC:33784]	Sym-	protein coding	-2.23	3.35	8.54	0.00	0.04	
ENSG00000187546	AGMO	alkylglycerol monooxygenase [Source:HGNC Symbol;Acc:HGNC:11760]	Symbol	[Source:HGNC Symbol;Acc:HGNC:20749]	Sym-	protein coding	-2.23	8.15	9.01	0.00	0.03	
ENSG0000003436	TFPI	tissue factor pathway inhibitor [Source:HGNC Symbol;Acc:HGNC:12994]	Symbol	[Source:HGNC Symbol;Acc:HGNC:2379]	Sym-	protein coding	-2.22	8.25	8.50	0.00	0.04	
ENSG00000180776	ZDHHC20	zinc finger DHHC-type containing 20 [Source:HGNC Symbol;Acc:HGNC:11855]	Symbol	[Source:HGNC Symbol;Acc:HGNC:12994]	Sym-	protein coding	-2.22	7.40	11.38	0.00	0.01	
ENSG00000170275	CRTAP	cartilage associated protein [Source:HGNC Symbol;Acc:HGNC:20749]	Symbol	[Source:HGNC Symbol;Acc:HGNC:2379]	Sym-	protein coding	-2.22	7.04	11.53	0.00	0.01	
ENSG00000166261	ZNF202	zinc finger protein 202 [Source:HGNC Symbol;Acc:HGNC:12994]	Symbol	[Source:HGNC Symbol;Acc:HGNC:11855]	Sym-	protein coding	2.22	3.44	10.27	0.00	0.02	
ENSG00000127324	TSPAN8	tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:3227]	Symbol	[Source:HGNC Symbol;Acc:HGNC:3227]	Sym-	protein coding	-2.22	5.75	15.88	0.00	0.00	
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	Symbol	[Source:HGNC Symbol;Acc:HGNC:3227]	Sym-	protein coding	2.21	2.92	8.13	0.00	0.05	
ENSG00000116809	ZBTB17	zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:HGNC:12936]	Symbol	[Source:HGNC Symbol;Acc:HGNC:12936]	Sym-	protein coding	2.21	4.59	21.50	0.00	0.00	
ENSG00000176058	TPRN	taperin [Source:HGNC Symbol;Acc:HGNC:26894]	Symbol	[Source:HGNC Symbol;Acc:HGNC:26894]	Sym-	protein coding	2.21	3.75	8.18	0.00	0.04	
ENSG00000121316	PLBD1	phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26215]	Symbol	[Source:HGNC Symbol;Acc:HGNC:26215]	Sym-	protein coding	-2.21	7.82	11.21	0.00	0.01	
ENSG00000173852	DPY19L1	dpy-19 like C-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:22205]	Symbol	[Source:HGNC Symbol;Acc:HGNC:22205]	Sym-	protein coding	-2.21	6.78	8.16	0.00	0.05	
ENSG00000164284	GRPEL2	GrpE like 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:21060]	Symbol	[Source:HGNC Symbol;Acc:HGNC:21060]	Sym-	protein coding	2.21	3.82	11.51	0.00	0.01	
ENSG00000114948	ADAM23	ADAM metallopeptidase domain 23 [Source:HGNC Symbol;Acc:HGNC:202]	Symbol	[Source:HGNC Symbol;Acc:HGNC:202]	Sym-	protein coding	-2.21	5.22	10.34	0.00	0.02	
ENSG00000154309	DISP1	dispatched RND transporter family member 1 [Source:HGNC Symbol;Acc:HGNC:19711]	Symbol	[Source:HGNC Symbol;Acc:HGNC:19711]	Sym-	protein coding	-2.21	5.32	8.24	0.00	0.04	
ENSG00000131781	FMO5	flavin containing monooxygenase 5 [Source:HGNC Symbol;Acc:HGNC:3773]	Symbol	[Source:HGNC Symbol;Acc:HGNC:3773]	Sym-	protein coding	-2.21	3.27	10.77	0.00	0.02	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	Symbol	[Source:HGNC Symbol;Acc:HGNC:15828]	Sym-	protein coding	2.21	4.97	16.20	0.00	0.00	
ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	Symbol	[Source:HGNC Symbol;Acc:HGNC:618]	Sym-	protein coding	2.21	5.82	16.64	0.00	0.00	
ENSG00000112773	TENT5A	terminal nucleotidyltransferase 5A [Source:HGNC Symbol;Acc:HGNC:18345]	Symbol	[Source:HGNC Symbol;Acc:HGNC:18345]	Sym-	protein coding	2.21	6.05	21.93	0.00	0.00	
ENSG00000092068	SLC7A8	solute carrier family 7 member 8 [Source:HGNC Symbol;Acc:HGNC:11066]	Symbol	[Source:HGNC Symbol;Acc:HGNC:11066]	Sym-	protein coding	-2.20	6.05	10.50	0.00	0.02	
ENSG00000166173	LARP6	La ribonucleoprotein domain family member 6 [Source:HGNC Symbol;Acc:HGNC:24012]	Symbol	[Source:HGNC Symbol;Acc:HGNC:24012]	Sym-	protein coding	2.20	4.23	14.40	0.00	0.00	
ENSG00000108557	RAI1	retinoic acid induced 1 [Source:HGNC Symbol;Acc:HGNC:9834]	Symbol	[Source:HGNC Symbol;Acc:HGNC:9834]	Sym-	protein coding	2.20	4.42	11.83	0.00	0.01	
ENSG00000008710	PKD1	polycystin 1, transient receptor potential channel interacting [Source:HGNC Symbol;Acc:HGNC:9008]	Symbol	[Source:HGNC Symbol;Acc:HGNC:9008]	Sym-	protein coding	2.20	5.62	11.18	0.00	0.02	

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ENSG00000213569		general transcription factor IIIC, polypeptide 6, alpha 35kDa (GTF3C6) pseudogene	processed pseudo-gene	-2.20	3.00	9.07	0.00	0.03	
ENSG00000137404	NRM	nurim [Source:HGNC Symbol;Acc:HGNC:8003]	protein coding	-2.20	4.36	14.24	0.00	0.00	
ENSG00000239305	RNF103	ring finger protein 103 [Source:HGNC Symbol;Acc:HGNC:12859]	protein coding	-2.20	6.17	8.49	0.00	0.04	
ENSG00000173905	GOLIM4	golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15448]	protein coding	-2.20	8.83	9.44	0.00	0.03	
ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	protein coding	-2.20	7.31	10.76	0.00	0.02	
ENSG00000151715	TMEM45B	transmembrane protein 45B [Source:HGNC Symbol;Acc:HGNC:25194]	protein coding	-2.20	6.97	12.69	0.00	0.01	
ENSG00000139182	CLSTN3	calsyntenin 3 [Source:HGNC Symbol;Acc:HGNC:18371]	protein coding	-2.20	7.82	10.57	0.00	0.02	
ENSG00000228278	ORM2	orosomucoid 2 [Source:HGNC Symbol;Acc:HGNC:8499]	protein coding	-2.19	5.63	9.16	0.00	0.03	
ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]	protein coding	2.19	4.33	16.45	0.00	0.00	
ENSG00000198162	MAN1A2	mannosidase alpha class 1A member 2 [Source:HGNC Symbol;Acc:HGNC:6822]	protein coding	-2.19	6.02	11.16	0.00	0.02	
ENSG00000184232	OAF	out at first homolog [Source:HGNC Symbol;Acc:HGNC:28752]	protein coding	-2.19	4.23	11.81	0.00	0.01	
ENSG00000159346	ADIPOR1	adiponectin receptor 1 [Source:HGNC Symbol;Acc:HGNC:24040]	protein coding	-2.19	6.02	12.65	0.00	0.01	
ENSG00000122642	FKBP9	FK506 binding protein 9 [Source:HGNC Symbol;Acc:HGNC:3725]	protein coding	-2.19	6.79	12.41	0.00	0.01	
ENSG00000130299	GTPBP3	GTP binding protein 3, mitochondrial [Source:HGNC Symbol;Acc:HGNC:14880]	protein coding	2.19	4.23	14.27	0.00	0.00	
ENSG00000106823	ECM2	extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:3154]	protein coding	-2.19	5.54	10.00	0.00	0.02	
ENSG00000105976	MET	MET proto-oncogene, receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:7029]	protein coding	-2.19	8.46	9.29	0.00	0.03	
ENSG00000188153	COL4A5	collagen type IV alpha 5 chain [Source:HGNC Symbol;Acc:HGNC:2207]	protein coding	-2.19	6.79	10.16	0.00	0.02	
ENSG00000174276	ZNHIT2	zinc finger HIT-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1177]	protein coding	2.19	3.60	9.86	0.00	0.02	
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	protein coding	-2.18	8.00	11.76	0.00	0.01	
ENSG00000141084	RANBP10	RAN binding protein 10 [Source:HGNC Symbol;Acc:HGNC:29285]	protein coding	2.18	5.14	21.05	0.00	0.00	
ENSG00000167522	ANKRD11	ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:HGNC:21316]	protein coding	2.18	7.90	10.93	0.00	0.02	
ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]	protein coding	2.18	5.35	13.55	0.00	0.01	

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ENSG00000088812	ATRN	attractin [Source:HGNC Symbol;Acc:HGNC:885]	protein coding	-2.18	9.34	9.41	0.00	0.03	
ENSG00000117528	ABCD3	ATP binding cassette subfamily D member 3 [Source:HGNC Symbol;Acc:HGNC:67]	protein coding	-2.18	8.97	12.80	0.00	0.01	
ENSG00000050130	JKAMP	JNK1/MAPK8 associated membrane protein [Source:HGNC Symbol;Acc:HGNC:20184]	protein coding	-2.18	7.58	9.74	0.00	0.03	
ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]	protein coding	-2.18	6.38	10.32	0.00	0.02	
ENSG00000147255	IGSF1	immunoglobulin superfamily member 1 [Source:HGNC Symbol;Acc:HGNC:5948]	protein coding	-2.17	7.47	11.16	0.00	0.02	
ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	protein coding	2.17	6.48	13.00	0.00	0.01	
ENSG00000109861	CTSC	cathepsin C [Source:HGNC Symbol;Acc:HGNC:2528]	protein coding	-2.17	10.09	10.59	0.00	0.02	
ENSG00000135776	ABCB10	ATP binding cassette subfamily B member 10 [Source:HGNC Symbol;Acc:HGNC:41]	protein coding	-2.17	5.39	11.97	0.00	0.01	
ENSG00000198837	DENN4B	DENN domain containing 4B [Source:HGNC Symbol;Acc:HGNC:29044]	protein coding	2.17	5.27	12.74	0.00	0.01	
ENSG00000107798	LIPA	lipase A, lysosomal acid type [Source:HGNC Symbol;Acc:HGNC:6617]	protein coding	-2.17	8.78	8.71	0.00	0.04	
ENSG00000057019	DCBLD2	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24627]	protein coding	-2.17	6.69	8.90	0.00	0.03	
ENSG00000166825	ANPEP	alanyl aminopeptidase, membrane [Source:HGNC Symbol;Acc:HGNC:500]	protein coding	-2.17	8.14	14.07	0.00	0.01	
ENSG00000163581	SLC2A2	solute carrier family 2 member 2 [Source:HGNC Symbol;Acc:HGNC:11006]	protein coding	-2.17	7.48	11.33	0.00	0.01	
ENSG00000162391	FAM151A	family with sequence similarity 151 member A [Source:HGNC Symbol;Acc:HGNC:25032]	protein coding	-2.17	6.75	15.99	0.00	0.00	
ENSG00000206527	HACD2	3-hydroxyacyl-CoA dehydratase 2 [Source:HGNC Symbol;Acc:HGNC:9640]	protein coding	-2.17	8.90	8.12	0.00	0.05	
ENSG00000164850	GPER1	G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:4485]	protein coding	-2.16	4.35	12.45	0.00	0.01	
ENSG00000143507	DUSP10	dual specificity phosphatase 10 [Source:HGNC Symbol;Acc:HGNC:3065]	protein coding	2.16	4.58	16.40	0.00	0.00	
ENSG00000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]	unprocessed pseudo-gene	2.16	5.35	21.19	0.00	0.00	
ENSG00000187824	TMEM220	transmembrane protein 220 [Source:HGNC Symbol;Acc:HGNC:33757]	protein coding	-2.16	5.91	11.34	0.00	0.01	
ENSG00000104341	LAPTM4B	lysosomal protein transmembrane 4 beta [Source:HGNC Symbol;Acc:HGNC:13646]	protein coding	-2.16	9.89	8.63	0.00	0.04	
ENSG00000104723	TUSC3	tumor suppressor candidate 3 [Source:HGNC Symbol;Acc:HGNC:30242]	protein coding	-2.16	7.89	9.59	0.00	0.03	

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ENSG00000173898	SPTBN2	spectrin beta, non-erythrocytic 2 [Source:HGNC Symbol;Acc:HGNC:11276]	protein coding	2.16	7.14	14.84	0.00	0.00	
ENSG00000163964	PIGX	phosphatidylinositol glycan anchor biosynthesis class X [Source:HGNC Symbol;Acc:HGNC:26046]	protein coding	-2.15	4.20	10.82	0.00	0.02	
ENSG00000137414	FAM8A1	family with sequence similarity 8 member A1 [Source:HGNC Symbol;Acc:HGNC:16372]	protein coding	-2.15	4.99	8.98	0.00	0.03	
ENSG00000133657	ATP13A3	ATPase 13A3 [Source:HGNC Symbol;Acc:HGNC:24113]	protein coding	-2.15	8.38	8.38	0.00	0.04	
ENSG00000087303	NID2	nidogen 2 [Source:HGNC Symbol;Acc:HGNC:13389]	protein coding	-2.15	6.66	10.63	0.00	0.02	
ENSG00000139173	TMEM117	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	protein coding	-2.15	5.05	9.40	0.00	0.03	
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	protein coding	-2.15	8.25	9.12	0.00	0.03	
ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]	protein coding	-2.15	7.72	8.55	0.00	0.04	
ENSG00000074590	NUAK1	NUAK family kinase 1 [Source:HGNC Symbol;Acc:HGNC:14311]	protein coding	2.15	4.49	14.37	0.00	0.00	
ENSG00000179163	FUCA1	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	protein coding	-2.15	5.55	8.57	0.00	0.04	
ENSG00000089057	SLC23A2	solute carrier family 23 member 2 [Source:HGNC Symbol;Acc:HGNC:10973]	protein coding	-2.15	7.21	10.62	0.00	0.02	
ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	protein coding	-2.14	5.78	8.00	0.00	0.05	
ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	protein coding	2.14	7.14	16.02	0.00	0.00	
ENSG00000105137	SYDE1	synapse defective Rho GTPase homolog 1 [Source:HGNC Symbol;Acc:HGNC:25824]	protein coding	2.14	4.12	14.25	0.00	0.00	
ENSG00000167123	CERCAM	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	protein coding	-2.14	3.88	8.95	0.00	0.03	
ENSG00000139324	TMTC3	transmembrane and tetratricopeptide repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:26899]	protein coding	-2.14	8.12	8.00	0.00	0.05	
ENSG00000101493	ZNF516	zinc finger protein 516 [Source:HGNC Symbol;Acc:HGNC:28990]	protein coding	2.14	5.16	13.01	0.00	0.01	
ENSG00000178814	OPLAH	5-oxoprolinase, ATP-hydrolysing [Source:HGNC Symbol;Acc:HGNC:8149]	protein coding	2.14	4.76	14.99	0.00	0.00	
ENSG00000197121	PGAP1	post-GPI attachment to proteins 1 [Source:HGNC Symbol;Acc:HGNC:25712]	protein coding	-2.14	6.50	8.85	0.00	0.04	
ENSG00000185475	TMEM179B	transmembrane protein 179B [Source:HGNC Symbol;Acc:HGNC:33744]	protein coding	-2.14	6.50	10.08	0.00	0.02	
ENSG00000173559	NABP1	nucleic acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:26232]	protein coding	2.14	4.66	18.12	0.00	0.00	
ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]	protein coding	2.14	5.40	19.06	0.00	0.00	

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ENSG00000174028	FAM3C2	family with sequence similarity 3 member C2 (pseudogene) [Source:HGNC Symbol;Acc:HGNC:34501]	processed pseudo-gene	-2.14	5.09	12.68	0.00	0.01	
ENSG00000197696	NMB	neuromedin B [Source:HGNC Symbol;Acc:HGNC:7842]	protein coding	-2.14	5.15	15.61	0.00	0.00	
ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	protein coding	-2.13	7.74	16.80	0.00	0.00	
ENSG00000163624	CDS1	CDP-diacylglycerol synthase 1 [Source:HGNC Symbol;Acc:HGNC:1800]	protein coding	-2.13	5.44	9.99	0.00	0.02	
ENSG00000111684	LPCAT3	lysophosphatidylcholine acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:30244]	protein coding	-2.13	5.98	10.88	0.00	0.02	
ENSG00000067992	PDK3	pyruvate dehydrogenase kinase 3 [Source:HGNC Symbol;Acc:HGNC:8811]	protein coding	-2.13	3.88	12.07	0.00	0.01	
ENSG00000132109	TRIM21	tripartite motif containing 21 [Source:HGNC Symbol;Acc:HGNC:11312]	protein coding	2.13	4.87	19.55	0.00	0.00	
ENSG00000164291	ARSK	aryl sulfatase family member K [Source:HGNC Symbol;Acc:HGNC:25239]	protein coding	-2.13	5.88	7.92	0.00	0.05	
ENSG00000171307	ZDHHC16	zinc finger DHHC-type containing 16 [Source:HGNC Symbol;Acc:HGNC:20714]	protein coding	-2.12	5.15	9.95	0.00	0.02	
ENSG00000205403	CFI	complement factor I [Source:HGNC Symbol;Acc:HGNC:5394]	protein coding	-2.12	6.38	14.92	0.00	0.00	
ENSG00000285711			lncRNA	2.12	4.19	11.02	0.00	0.02	
ENSG00000085365	SCAMP1	secretory carrier membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:10563]	protein coding	-2.12	6.43	8.67	0.00	0.04	
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	2.12	5.90	18.08	0.00	0.00	
ENSG00000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]	protein coding	2.12	5.17	19.48	0.00	0.00	
ENSG00000148702	HABP2	hyaluronan binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4798]	protein coding	-2.12	8.90	9.64	0.00	0.03	
ENSG00000123124	WWP1	WW domain containing E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:HGNC:17004]	protein coding	-2.12	3.72	10.55	0.00	0.02	
ENSG00000149547	E124	E124, autophagy associated transmembrane protein [Source:HGNC Symbol;Acc:HGNC:13276]	protein coding	-2.12	5.85	12.29	0.00	0.01	
ENSG00000188488	SERPINA5	serpin family A member 5 [Source:HGNC Symbol;Acc:HGNC:8723]	protein coding	-2.12	9.17	10.54	0.00	0.02	
ENSG00000111885	MAN1A1	mannosidase alpha class 1A member 1 [Source:HGNC Symbol;Acc:HGNC:6821]	protein coding	-2.11	10.01	8.09	0.00	0.05	
ENSG00000106701	FSD1L	fibronectin type III and SPRY domain containing 1 like [Source:HGNC Symbol;Acc:HGNC:13753]	protein coding	2.11	3.28	9.87	0.00	0.02	
ENSG00000241553	ARPC4	actin related protein 2/3 complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:707]	protein coding	2.11	4.79	15.73	0.00	0.00	
ENSG00000156471	PTDSS1	phosphatidylserine synthase 1 [Source:HGNC Symbol;Acc:HGNC:9587]	protein coding	-2.11	8.08	10.06	0.00	0.02	
ENSG00000118495	PLAGL1	PLAG1 like zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:9046]	protein coding	2.11	4.81	11.44	0.00	0.01	

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ENSG00000100031	GGT1	gamma-glutamyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4250]	protein coding	-2.10	6.43	12.63	0.00	0.01	
ENSG0000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	protein coding	2.10	6.97	17.70	0.00	0.00	
ENSG00000158669	GPAT4	glycerol-3-phosphate acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:20880]	protein coding	-2.10	6.80	8.53	0.00	0.04	
ENSG00000102870	ZNF629	zinc finger protein 629 [Source:HGNC Symbol;Acc:HGNC:29008]	protein coding	2.10	3.94	14.10	0.00	0.01	
ENSG00000167962	ZNF598	zinc finger protein 598 [Source:HGNC Symbol;Acc:HGNC:28079]	protein coding	2.10	4.91	17.16	0.00	0.00	
ENSG00000159899	NPR2	natriuretic peptide receptor 2 [Source:HGNC Symbol;Acc:HGNC:7944]	protein coding	-2.10	6.92	9.94	0.00	0.02	
ENSG0000010379	SLC6A13	solute carrier family 6 member 13 [Source:HGNC Symbol;Acc:HGNC:11046]	protein coding	-2.10	4.07	9.51	0.00	0.03	
ENSG0000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	2.10	4.68	16.73	0.00	0.00	
ENSG00000100234	TIMP3	TIMP metallopeptidase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:11822]	protein coding	-2.10	5.73	12.32	0.00	0.01	
ENSG00000109089	CDR2L	cerebellar degeneration related protein 2 like [Source:HGNC Symbol;Acc:HGNC:29999]	protein coding	2.10	4.60	9.54	0.00	0.03	
ENSG00000159063	ALG8	ALG8, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23161]	protein coding	-2.09	8.58	8.52	0.00	0.04	
ENSG00000106688	SLC1A1	solute carrier family 1 member 1 [Source:HGNC Symbol;Acc:HGNC:10939]	protein coding	-2.09	4.81	8.69	0.00	0.04	
ENSG00000167711	SERPINF2	serpin family F member 2 [Source:HGNC Symbol;Acc:HGNC:9075]	protein coding	-2.09	8.99	10.22	0.00	0.02	
ENSG00000177707	NECTIN3	nectin cell adhesion molecule 3 [Source:HGNC Symbol;Acc:HGNC:17664]	protein coding	-2.09	7.57	8.40	0.00	0.04	
ENSG00000197965	MPZL1	myelin protein zero like 1 [Source:HGNC Symbol;Acc:HGNC:7226]	protein coding	-2.09	7.63	10.21	0.00	0.02	
ENSG00000198951	NAGA	alpha-N-acetylgalactosaminidase [Source:HGNC Symbol;Acc:HGNC:7631]	protein coding	-2.09	6.06	13.29	0.00	0.01	
ENSG00000133454	MYO18B	myosin XVIIIB [Source:HGNC Symbol;Acc:HGNC:18150]	protein coding	2.09	6.31	13.77	0.00	0.01	
ENSG00000157131	C8A	complement C8 alpha chain [Source:HGNC Symbol;Acc:HGNC:1352]	protein coding	-2.09	6.74	9.77	0.00	0.03	
ENSG00000166166	TRMT61A	tRNA methyltransferase 61A [Source:HGNC Symbol;Acc:HGNC:23790]	protein coding	2.08	5.11	9.22	0.00	0.03	
ENSG00000100425	BRD1	bromodomain containing 1 [Source:HGNC Symbol;Acc:HGNC:1102]	protein coding	2.08	5.32	14.44	0.00	0.00	
ENSG0000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	protein coding	2.08	5.47	16.53	0.00	0.00	
ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]	protein coding	-2.08	6.20	16.14	0.00	0.00	
ENSG0000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]	protein coding	2.08	4.90	10.50	0.00	0.02	

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ENSG00000130309	COLGALT1	collagen beta(1-O)galactosyltransferase [Source:HGNC Symbol;Acc:HGNC:26182]	1	protein coding	-2.08	8.16	10.06	0.00	0.02		
ENSG0000011105	TSPAN9	tetraspanin 9 [Source:HGNC Symbol;Acc:HGNC:21640]	Sym-	protein coding	-2.08	6.40	11.74	0.00	0.01		
ENSG00000100139	MICAL1	MICAL like 1 [Source:HGNC Symbol;Acc:HGNC:29804]	Sym-	protein coding	2.07	4.88	11.17	0.00	0.02		
ENSG00000251562	MALAT1	metastasis associated lung adenocarcinoma transcript 1 [Source:HGNC Symbol;Acc:HGNC:29665]		lincRNA	2.07	8.48	8.07	0.00	0.05		
ENSG00000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]		protein coding	2.07	6.94	19.01	0.00	0.00		
ENSG00000225697	SLC26A6	solute carrier family 26 member 6 [Source:HGNC Symbol;Acc:HGNC:14472]		protein coding	-2.07	7.06	12.96	0.00	0.01		
ENSG00000173456	RNF26	ring finger protein 26 [Source:HGNC Symbol;Acc:HGNC:14646]	Sym-	protein coding	-2.07	5.92	9.28	0.00	0.03		
ENSG00000170545	SMAGP	small cell adhesion glycoprotein [Source:HGNC Symbol;Acc:HGNC:26918]		protein coding	-2.07	4.89	10.47	0.00	0.02		
ENSG00000144320	LNPK	lunapark, ER junction formation factor [Source:HGNC Symbol;Acc:HGNC:21610]		protein coding	-2.07	7.30	8.74	0.00	0.04		
ENSG00000249115	HAUS5	HAUS augmin like complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:29130]		protein coding	2.07	4.84	13.74	0.00	0.01		
ENSG00000163945	UVSSA	UV stimulated scaffold protein A [Source:HGNC Symbol;Acc:HGNC:29304]		protein coding	2.06	4.57	16.75	0.00	0.00		
ENSG00000185000	DGAT1	diacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2843]		protein coding	-2.06	6.17	11.24	0.00	0.01		
ENSG00000184307	ZDHHC23	zinc finger DHHC-type containing 23 [Source:HGNC Symbol;Acc:HGNC:28654]		protein coding	-2.06	4.98	8.26	0.00	0.04		
ENSG00000070404	FSTL3	follistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	Sym-	protein coding	2.06	6.11	11.77	0.00	0.01		
ENSG00000130940	CASZ1	castor zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:26002]	Sym-	protein coding	2.06	3.39	8.23	0.00	0.04		
ENSG00000113569	NUP155	nucleoporin 155 [Source:HGNC Symbol;Acc:HGNC:8063]	Sym-	protein coding	-2.06	8.86	9.56	0.00	0.03		
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]		protein coding	2.06	3.31	8.92	0.00	0.03		
ENSG00000126775	ATG14	autophagy related 14 [Source:HGNC Symbol;Acc:HGNC:19962]		protein coding	2.05	4.75	14.50	0.00	0.00		
ENSG00000232040	ZBED9	zinc finger BED-type containing 9 [Source:HGNC Symbol;Acc:HGNC:13851]		protein coding	2.05	3.57	7.89	0.00	0.05		
ENSG00000146826	C7orf43	chromosome 7 open reading frame 43 [Source:HGNC Symbol;Acc:HGNC:25604]		protein coding	2.05	3.88	8.66	0.00	0.04		
ENSG00000197969	VPS13A	vacuolar protein sorting 13 homolog A [Source:HGNC Symbol;Acc:HGNC:1908]		protein coding	-2.05	8.16	8.07	0.00	0.05		
ENSG00000107249	GLIS3	GLIS family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:28510]		protein coding	2.05	4.32	11.29	0.00	0.01		
ENSG00000177410	ZFAS1	ZNFX1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33101]		antisense	2.05	5.52	19.14	0.00	0.00		

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000101665	SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:HGNC:6773]	protein coding	2.05	4.92	16.22	0.00	0.00	
ENSG00000169105	CHST14	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	protein coding	-2.05	4.46	8.60	0.00	0.04	
ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]	protein coding	2.04	7.78	13.91	0.00	0.01	
ENSG00000073060	SCARB1	scavenger receptor class B member 1 [Source:HGNC Symbol;Acc:HGNC:1664]	protein coding	-2.04	9.98	10.15	0.00	0.02	
ENSG00000090661	CERS4	ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:23747]	protein coding	-2.04	5.85	11.16	0.00	0.02	
ENSG00000167395	ZNF646	zinc finger protein 646 [Source:HGNC Symbol;Acc:HGNC:29004]	protein coding	2.04	5.06	10.69	0.00	0.02	
ENSG00000064115	TM7SF3	transmembrane 7 superfamily member 3 [Source:HGNC Symbol;Acc:HGNC:23049]	protein coding	-2.04	6.61	14.26	0.00	0.00	
ENSG00000207280	SNORD20	small nucleolar RNA, C/D box 20 [Source:HGNC Symbol;Acc:HGNC:10143]	snoRNA	2.04	5.15	12.96	0.00	0.01	
ENSG00000076067	RBMS2	RNA binding motif single stranded interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:9909]	protein coding	2.04	4.32	10.03	0.00	0.02	
ENSG00000082781	ITGB5	integrin subunit beta 5 [Source:HGNC Symbol;Acc:HGNC:6160]	protein coding	-2.04	8.03	10.69	0.00	0.02	
ENSG00000131115	ZNF227	zinc finger protein 227 [Source:HGNC Symbol;Acc:HGNC:13020]	protein coding	2.04	3.61	8.02	0.00	0.05	
ENSG00000103264	FBXO31	F-box protein 31 [Source:HGNC Symbol;Acc:HGNC:16510]	protein coding	2.04	4.77	12.70	0.00	0.01	
ENSG00000116199	FAM20B	FAM20B, glycosaminoglycan xylosyl kinase [Source:HGNC Symbol;Acc:HGNC:23017]	protein coding	-2.04	5.53	8.95	0.00	0.03	
ENSG00000139718	SETD1B	SET domain containing 1B [Source:HGNC Symbol;Acc:HGNC:29187]	protein coding	2.04	4.49	13.18	0.00	0.01	
ENSG00000072042	RDH11	retinol dehydrogenase 11 [Source:HGNC Symbol;Acc:HGNC:17964]	protein coding	-2.04	8.04	10.32	0.00	0.02	
ENSG00000117335	CD46	CD46 molecule [Source:HGNC Symbol;Acc:HGNC:6953]	protein coding	-2.04	8.56	10.08	0.00	0.02	
ENSG00000161395	PGAP3	post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:HGNC:23719]	protein coding	-2.04	4.36	8.28	0.00	0.04	
ENSG00000006062	MAP3K14	mitogen-activated protein kinase kinase kinase 14 [Source:HGNC Symbol;Acc:HGNC:6853]	protein coding	2.04	3.86	10.49	0.00	0.02	
ENSG00000269378		integrin beta 1 pseudogene 1	processed pseudo-gene	-2.04	4.37	11.06	0.00	0.02	
ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	protein coding	2.03	8.17	15.83	0.00	0.00	
ENSG00000135454	B4GALNT1	beta-1,4-N-acetyl-galactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4117]	protein coding	-2.03	5.51	13.75	0.00	0.01	
ENSG00000188167	TMPPE	transmembrane protein with metallophosphoesterase domain [Source:HGNC Symbol;Acc:HGNC:33865]	protein coding	-2.03	6.83	12.58	0.00	0.01	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000103811	CTSH	cathepsin H [Source:HGNC Symbol;Acc:HGNC:2535]	protein coding	-2.03	7.67	13.55	0.00	0.01	
ENSG00000154864	PIEZ02	piezo type mechanosensitive ion channel component 2 [Source:HGNC Symbol;Acc:HGNC:26270]	protein coding	-2.03	6.02	9.65	0.00	0.03	
ENSG00000183963	SMTN	smoothelin [Source:HGNC Symbol;Acc:HGNC:11126]	protein coding	2.03	6.48	14.96	0.00	0.00	
ENSG00000126391	FRMD8	FERM domain containing 8 [Source:HGNC Symbol;Acc:HGNC:25462]	protein coding	2.03	4.30	10.87	0.00	0.02	
ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	protein coding	-2.03	6.23	9.72	0.00	0.03	
ENSG00000005469	CROT	carnitine O-octanoyltransferase [Source:HGNC Symbol;Acc:HGNC:2366]	protein coding	-2.03	4.33	13.39	0.00	0.01	
ENSG00000139974	SLC38A6	solute carrier family 38 member 6 [Source:HGNC Symbol;Acc:HGNC:19863]	protein coding	-2.02	6.91	9.47	0.00	0.03	
ENSG00000104998	IL27RA	interleukin 27 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:17290]	protein coding	-2.02	5.87	12.02	0.00	0.01	
ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	protein coding	-2.02	5.36	15.56	0.00	0.00	
ENSG00000111846	GCNT2	glucosaminyl (N-acetyl) transferase 2 (I blood group) [Source:HGNC Symbol;Acc:HGNC:4204]	protein coding	-2.02	6.58	8.42	0.00	0.04	
ENSG00000167107	ACSF2	acyl-CoA synthetase family member 2 [Source:HGNC Symbol;Acc:HGNC:26101]	protein coding	-2.02	5.44	11.87	0.00	0.01	
ENSG00000168495	POLR3D	RNA polymerase III subunit D [Source:HGNC Symbol;Acc:HGNC:1080]	protein coding	2.02	5.08	18.74	0.00	0.00	
ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	protein coding	2.02	6.62	11.63	0.00	0.01	
ENSG00000204852	TCTN1	tectonic family member 1 [Source:HGNC Symbol;Acc:HGNC:26113]	protein coding	-2.02	4.95	8.55	0.00	0.04	
ENSG00000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]	protein coding	2.02	4.20	10.05	0.00	0.02	
ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]	protein coding	-2.02	5.51	16.13	0.00	0.00	
ENSG00000215041	NEURL4	neuralized E3 ubiquitin protein ligase 4 [Source:HGNC Symbol;Acc:HGNC:34410]	protein coding	2.02	4.70	12.10	0.00	0.01	
ENSG00000069849	ATP1B3	ATPase Na+/K+ transporting subunit beta 3 [Source:HGNC Symbol;Acc:HGNC:806]	protein coding	-2.01	8.57	10.93	0.00	0.02	
ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	protein coding	-2.01	7.03	10.22	0.00	0.02	
ENSG00000105325	FZR1	fizzy and cell division cycle 20 related 1 [Source:HGNC Symbol;Acc:HGNC:24824]	protein coding	2.01	5.89	19.40	0.00	0.00	
ENSG00000169871	TRIM56	tripartite motif containing 56 [Source:HGNC Symbol;Acc:HGNC:19028]	protein coding	2.01	5.28	18.86	0.00	0.00	
ENSG00000151348	EXT2	exostosin glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3513]	protein coding	-2.01	7.71	9.27	0.00	0.03	
ENSG00000161048	NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D [Source:HGNC Symbol;Acc:HGNC:21683]	protein coding	-2.01	4.83	16.09	0.00	0.00	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change PI vs. pre-treatment)	Fold (40h pre-treatment)	Average \log_2 CPM	Likelihood Ratio Test Statistic	P-Value	FDR Adjusted P-Value
ENSG00000197006	METTL9	methyltransferase like 9 [Source:HGNC Symbol;Acc:HGNC:24586]	protein coding	-2.01	5.72	12.77	0.00	0.01	
ENSG00000135924	DNAJB2	DnaJ heat shock protein family (Hsp40) member B2 [Source:HGNC Symbol;Acc:HGNC:5228]	protein coding	2.01	5.05	15.14	0.00	0.00	
ENSG00000133935	ERG28	ergosterol biosynthesis 28 homolog [Source:HGNC Symbol;Acc:HGNC:1187]	protein coding	-2.01	7.84	9.37	0.00	0.03	
ENSG00000068323	TFE3	transcription factor binding to IGHM enhancer 3 [Source:HGNC Symbol;Acc:HGNC:11752]	protein coding	2.01	7.01	15.37	0.00	0.00	
ENSG00000215035	FDPSP5	farnesyl diphosphate synthase pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:3636]	processed pseudogene	-2.00	5.72	9.39	0.00	0.03	
ENSG00000130066	SAT1	spermidine/spermine N1-acetyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10540]	protein coding	2.00	6.73	15.37	0.00	0.00	
ENSG00000183586	HMGN3P1	high mobility group nucleosomal binding domain 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39206]	processed pseudogene	-2.00	4.36	8.01	0.00	0.05	
ENSG00000178951	ZBTB7A	zinc finger and BTB domain containing 7A [Source:HGNC Symbol;Acc:HGNC:18078]	protein coding	2.00	4.00	11.13	0.00	0.02	
ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	protein coding	2.00	5.20	18.13	0.00	0.00	
ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]	protein coding	2.00	4.54	12.53	0.00	0.01	
ENSG00000165102	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase [Source:HGNC Symbol;Acc:HGNC:26527]	protein coding	-2.00	6.52	8.02	0.00	0.05	
ENSG00000146409	SLC18B1	solute carrier family 18 member B1 [Source:HGNC Symbol;Acc:HGNC:21573]	protein coding	-2.00	6.60	8.41	0.00	0.04	
ENSG00000104853	CLPTM1	CLPTM1, transmembrane protein [Source:HGNC Symbol;Acc:HGNC:2087]	protein coding	-2.00	9.16	9.00	0.00	0.03	

Table 49: Genes differentially expressed at 40h PI compared to pre-treatment (RP, Huh7, ER). Sorted by descending absolute \log_2 fold change (Day 40 vs. pre-treatment). Gene model summaries and annotations are based on Ensembl Version 95.

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP24-001	4	ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	2.31	2.31
RP-HUHTP24-001	4	ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	2.06	2.06
RP-HUHTP24-001	4	ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]	1.30	1.30
RP-HUHTP24-001	4	ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	1.96	1.96
RP-HUHTP24-002	3	ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	2.35	2.35
RP-HUHTP24-002	3	ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	1.93	1.93
RP-HUHTP24-002	3	ENSG00000177082	WDR73	WD repeat domain 73 [Source:HGNC Symbol;Acc:HGNC:25928]	0.95	0.95
RP-HUHTP24-003	2	ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	3.06	3.06
RP-HUHTP24-003	2	ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	3.21	3.21
RP-HUHTP24-004	2	ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	3.58	3.58
RP-HUHTP24-004	2	ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	1.42	1.42
RP-HUHTP24-005	3	ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	3.59	3.59
RP-HUHTP24-005	3	ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	7.43	7.43
RP-HUHTP24-005	3	ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	1.32	1.32
RP-HUHTP24-006	6	ENSG00000253616		novel transcript	2.80	2.80
RP-HUHTP24-006	6	ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	3.32	3.32
RP-HUHTP24-006	6	ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	5.53	5.53
RP-HUHTP24-006	6	ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	3.70	3.70
RP-HUHTP24-006	6	ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	4.92	4.92
RP-HUHTP24-006	6	ENSG00000139793	MBNL2	muscleblind like splicing regulator 2 [Source:HGNC Symbol;Acc:HGNC:16746]	1.85	1.85
RP-HUHTP24-007	6	ENSG00000129474	AJUBA	ajuba LIM protein [Source:HGNC Symbol;Acc:HGNC:20250]	1.32	1.32
RP-HUHTP24-007	6	ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	2.49	2.49
RP-HUHTP24-007	6	ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	2.20	2.20
RP-HUHTP24-007	6	ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	4.39	4.39
RP-HUHTP24-007	6	ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	2.08	2.08
RP-HUHTP24-007	6	ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	2.75	2.75
RP-HUHTP24-008	3	ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	3.46	3.46
RP-HUHTP24-008	3	ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	2.66	2.66
RP-HUHTP24-008	3	ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]	2.61	2.61
RP-HUHTP24-009	5	ENSG00000116761	CTH	cystathione gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	1.43	1.43
RP-HUHTP24-009	5	ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	4.19	4.19
RP-HUHTP24-009	5	ENSG0000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	1.83	1.83
RP-HUHTP24-009	5	ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	3.76	3.76

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2	
					FC	CYT ER
RP-HUHTP24-009	5	ENSG00000204616	TRIM31	tripartite motif containing 31 [Source:HGNC Symbol;Acc:HGNC:16289]	2.04	2.04
RP-HUHTP24-010	4	ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	1.44	1.44
RP-HUHTP24-010	4	ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	2.75	2.75
RP-HUHTP24-010	4	ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	1.98	1.98
RP-HUHTP24-010	4	ENSG00000168495	POLR3D	RNA polymerase III subunit D [Source:HGNC Symbol;Acc:HGNC:1080]	0.70	0.70
RP-HUHTP24-011	2	ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	4.16	4.16
RP-HUHTP24-011	2	ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	0.90	0.90
RP-HUHTP24-012	2	ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	1.96	1.96
RP-HUHTP24-012	2	ENSG00000197063	MAFG	MAF bZIP transcription factor G [Source:HGNC Symbol;Acc:HGNC:6781]	1.80	1.80
RP-HUHTP24-013	3	ENSG00000143507	DUSP10	dual specificity phosphatase 10 [Source:HGNC Symbol;Acc:HGNC:3065]	1.31	1.31
RP-HUHTP24-013	3	ENSG00000156860	FBRS	fibrosin [Source:HGNC Symbol;Acc:HGNC:20442]	1.10	1.10
RP-HUHTP24-013	3	ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	2.39	2.39
RP-HUHTP24-014	8	ENSG00000099814	CEP170B	centrosomal protein 170B [Source:HGNC Symbol;Acc:HGNC:20362]	1.00	1.00
RP-HUHTP24-014	8	ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	1.74	1.74
RP-HUHTP24-014	8	ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	2.00	2.00
RP-HUHTP24-014	8	ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]	2.65	2.65
RP-HUHTP24-014	8	ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	1.50	1.50
RP-HUHTP24-014	8	ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	1.95	1.95
RP-HUHTP24-014	8	ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	1.35	1.35
RP-HUHTP24-014	8	ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	2.02	2.02
RP-HUHTP24-015	3	ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	1.15	1.15
RP-HUHTP24-015	3	ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	4.04	4.04
RP-HUHTP24-015	3	ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	1.58	1.58
RP-HUHTP24-016	5	ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	1.47	1.47
RP-HUHTP24-016	5	ENSG00000140044	JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:HGNC:17546]	2.32	2.32
RP-HUHTP24-016	5	ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]	1.85	1.85
RP-HUHTP24-016	5	ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	3.20	3.20
RP-HUHTP24-016	5	ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	2.83	2.83
RP-HUHTP24-017	5	ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	2.29	2.29
RP-HUHTP24-017	5	ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	1.43	1.43
RP-HUHTP24-017	5	ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	1.53	1.53
RP-HUHTP24-017	5	ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	2.20	2.20

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP24-017	5	ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	1.67	1.67
RP-HUHTP24-018	5	ENSG0000011132	APBA3	amyloid beta precursor protein binding family A member 3 [Source:HGNC Symbol;Acc:HGNC:580]	1.25	1.25
RP-HUHTP24-018	5	ENSG00000100226	GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4669]	0.75	0.75
RP-HUHTP24-018	5	ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	2.21	2.21
RP-HUHTP24-018	5	ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]	1.33	1.33
RP-HUHTP24-018	5	ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	1.75	1.75
RP-HUHTP24-019	5	ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	4.19	4.19
RP-HUHTP24-019	5	ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	2.72	2.72
RP-HUHTP24-019	5	ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	3.43	3.43
RP-HUHTP24-019	5	ENSG00000128228	SDF2L1	stromal cell derived factor 2 like 1 [Source:HGNC Symbol;Acc:HGNC:10676]	2.69	2.69
RP-HUHTP24-019	5	ENSG00000113811	SELENOK	seleoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	2.58	2.58
RP-HUHTP24-020	6	ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	3.58	3.58
RP-HUHTP24-020	6	ENSG00000128272	ATF4	activating transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:786]	1.80	1.80
RP-HUHTP24-020	6	ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	3.17	3.17
RP-HUHTP24-020	6	ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	3.40	3.40
RP-HUHTP24-020	6	ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	3.79	3.79
RP-HUHTP24-020	6	ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	1.47	1.47
RP-HUHTP24-021	7	ENSG00000159753	CARMIL2	capping protein regulator and myosin 1 linker 2 [Source:HGNC Symbol;Acc:HGNC:27089]	1.28	1.28
RP-HUHTP24-021	7	ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]	1.72	1.72
RP-HUHTP24-021	7	ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily I member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	1.22	1.22
RP-HUHTP24-021	7	ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	1.20	1.20
RP-HUHTP24-021	7	ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]	0.64	0.64
RP-HUHTP24-021	7	ENSG00000140406	TLNRD1	talin rod domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13519]	0.91	0.91
RP-HUHTP24-021	7	ENSG00000218891	ZNF579	zinc finger protein 579 [Source:HGNC Symbol;Acc:HGNC:26646]	0.86	0.86
RP-HUHTP24-022	6	ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	0.84	0.84
RP-HUHTP24-022	6	ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	1.71	1.71
RP-HUHTP24-022	6	ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	2.35	2.35
RP-HUHTP24-022	6	ENSG00000178209	PLEC	plectin [Source:HGNC Symbol;Acc:HGNC:9069]	1.80	1.80
RP-HUHTP24-022	6	ENSG00000132109	TRIM21	tripartite motif containing 21 [Source:HGNC Symbol;Acc:HGNC:11312]	0.75	0.75
RP-HUHTP24-022	6	ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	0.89	0.89
RP-HUHTP24-023	3	ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	3.60	3.60
RP-HUHTP24-023	3	ENSG00000123342	MMP19	matrix metalloproteinase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	2.33	2.33
RP-HUHTP24-023	3	ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	2.27	2.27

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP24-024	8	ENSG00000180448	ARHGAP45	Rho GTPase activating protein 45 [Source:HGNC Symbol;Acc:HGNC:17102]	0.87	0.87
RP-HUHTP24-024	8	ENSG00000228218	ATF4P3	activating transcription factor 4 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:788]	1.88	1.88
RP-HUHTP24-024	8	ENSG00000103326	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182]	0.82	0.82
RP-HUHTP24-024	8	ENSG00000101216	GMEB2	glucocorticoid modulatory element binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4371]	1.11	1.11
RP-HUHTP24-024	8	ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene) [Source:HGNC Symbol;Acc:HGNC:4969]	2.79	2.79
RP-HUHTP24-024	8	ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]	1.66	1.66
RP-HUHTP24-024	8	ENSG00000178685	PARP10	poly(ADP-ribose) polymerase family member 10 [Source:HGNC Symbol;Acc:HGNC:25895]	1.90	1.90
RP-HUHTP24-024	8	ENSG00000177169	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:HGNC:12558]	1.41	1.41
RP-HUHTP24-025	4	ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	2.21	2.21
RP-HUHTP24-025	4	ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	1.10	1.10
RP-HUHTP24-025	4	ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	3.34	3.34
RP-HUHTP24-025	4	ENSG00000173114	LRRN3	leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HGNC:17200]	1.95	1.95
RP-HUHTP24-026	8	ENSG00000230779		ribosomal protein, large, P0 (RPLP0) pseudogene	4.18	4.18
RP-HUHTP24-026	8	ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	0.92	0.92
RP-HUHTP24-026	8	ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	2.20	2.20
RP-HUHTP24-026	8	ENSG00000133328	HRASLS2	HRAS like suppressor 2 [Source:HGNC Symbol;Acc:HGNC:17824]	1.44	1.44
RP-HUHTP24-026	8	ENSG00000183709	IFNL2	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	2.65	2.65
RP-HUHTP24-026	8	ENSG00000243406	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:39253]	2.12	2.12
RP-HUHTP24-026	8	ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	1.45	1.45
RP-HUHTP24-026	8	ENSG00000127561	SYNGR3	synaptogyrin 3 [Source:HGNC Symbol;Acc:HGNC:11501]	1.32	1.32

Table 50: Co-expressed gene clusters (RP, Huh7, 24h PI)

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP40-001	2	ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]	4.29	4.29
RP-HUHTP40-001	2	ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	3.27	3.27
RP-HUHTP40-002	3	ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	8.00	8.00
RP-HUHTP40-002	3	ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	6.17	6.17
RP-HUHTP40-002	3	ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	7.83	7.83
RP-HUHTP40-003	2	ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	3.21	3.21
RP-HUHTP40-003	2	ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	4.73	4.73
RP-HUHTP40-004	2	ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	2.52	2.52
RP-HUHTP40-004	2	ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	2.73	2.73
RP-HUHTP40-005	2	ENSG00000110237	ARHGEF17	Rho guanine nucleotide exchange factor 17 [Source:HGNC Symbol;Acc:HGNC:21726]	2.25	2.25

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP40-005	2	ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	6.08	6.08
RP-HUHTP40-006	2	ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	5.97	5.97
RP-HUHTP40-006	2	ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	2.30	2.30
RP-HUHTP40-007	4	ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	2.88	2.88
RP-HUHTP40-007	4	ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	3.22	3.22
RP-HUHTP40-007	4	ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	3.01	3.01
RP-HUHTP40-007	4	ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	2.88	2.88
RP-HUHTP40-008	3	ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	2.38	2.38
RP-HUHTP40-008	3	ENSG00000112773	TENT5A	terminal nucleotidyltransferase 5A [Source:HGNC Symbol;Acc:HGNC:18345]	1.69	1.69
RP-HUHTP40-008	3	ENSG00000162714	ZNF496	zinc finger protein 496 [Source:HGNC Symbol;Acc:HGNC:23713]	1.41	1.41
RP-HUHTP40-009	2	ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	3.11	3.11
RP-HUHTP40-009	2	ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]	2.71	2.71
RP-HUHTP40-010	2	ENSG00000126461	SCAF1	SR-related CTD associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30403]	2.07	2.07
RP-HUHTP40-010	2	ENSG00000177169	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:HGNC:12558]	1.54	1.54
RP-HUHTP40-011	3	ENSG00000253616		novel transcript	3.93	3.93
RP-HUHTP40-011	3	ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	5.54	5.54
RP-HUHTP40-011	3	ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	4.47	4.47
RP-HUHTP40-012	2	ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	2.26	2.26
RP-HUHTP40-012	2	ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	5.21	5.21
RP-HUHTP40-013	2	ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	3.68	3.68
RP-HUHTP40-013	2	ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	4.84	4.84
RP-HUHTP40-014	2	ENSG00000204946	ZNF783	zinc finger family member 783 [Source:HGNC Symbol;Acc:HGNC:27222]	2.24	2.24
RP-HUHTP40-014	2	ENSG00000197608	ZNF841	zinc finger protein 841 [Source:HGNC Symbol;Acc:HGNC:27611]	3.00	3.00
RP-HUHTP40-015	3	ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	2.21	2.21
RP-HUHTP40-015	3	ENSG00000100226	GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4669]	1.78	1.78
RP-HUHTP40-015	3	ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	3.35	3.35
RP-HUHTP40-016	2	ENSG00000099937	SERPIND1	serpin family D member 1 [Source:HGNC Symbol;Acc:HGNC:4838]	-0.25	-0.25
RP-HUHTP40-016	2	ENSG00000114638	UPK1B	uroplakin 1B [Source:HGNC Symbol;Acc:HGNC:12578]	-0.20	-0.20
RP-HUHTP40-017	2	ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	7.93	7.93
RP-HUHTP40-017	2	ENSG00000139793	MBNL2	muscleblind like splicing regulator 2 [Source:HGNC Symbol;Acc:HGNC:16746]	2.81	2.81
RP-HUHTP40-018	2	ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]	0.67	0.67
RP-HUHTP40-018	2	ENSG00000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]	0.78	0.78
RP-HUHTP40-019	2	ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	3.96	3.96
RP-HUHTP40-019	2	ENSG00000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	1.92	1.92

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					\log_2 FC	\log_2 FC CYT	\log_2 ER
				HID1 domain containing [Source:HGNC bol;Acc:HGNC:15736]	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	transmembrane protein 245 [Source:HGNC bol;Acc:HGNC:1363]	thioredoxin related transmembrane protein 4 [Source:HGNC Symbol;Acc:HGNC:25237]				
RP-HUHTP40-020	2	ENSG00000167861	HID1	HID1 domain containing [Source:HGNC bol;Acc:HGNC:15736]				Sym-	3.81	3.81	
RP-HUHTP40-020	2	ENSG00000173193	PARP14		poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]				1.84	1.84	
RP-HUHTP40-021	2	ENSG00000106771	TMEM245			transmembrane protein 245 [Source:HGNC bol;Acc:HGNC:1363]		Sym-	-0.27	-0.27	
RP-HUHTP40-021	2	ENSG00000125827	TMX4				thioredoxin related transmembrane protein 4 [Source:HGNC Symbol;Acc:HGNC:25237]		-0.36	-0.36	
RP-HUHTP40-022	5	ENSG00000108771	DHX58		DExH-box helicase 58 [Source:HGNC bol;Acc:HGNC:29517]			Sym-	4.89	4.89	
RP-HUHTP40-022	5	ENSG00000154451	GBP5		guanylate binding protein 5 [Source:HGNC bol;Acc:HGNC:19895]			Sym-	6.72	6.72	
RP-HUHTP40-022	5	ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC bol;Acc:HGNC:29012]				Sym-	3.27	3.27	
RP-HUHTP40-022	5	ENSG00000128422	KRT17		keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]				7.37	7.37	
RP-HUHTP40-022	5	ENSG00000163121	NEURL3			neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Sym- bol;Acc:HGNC:25162]			7.42	7.42	
RP-HUHTP40-023	3	ENSG00000283162			STR6-like (Stra6) pseudogene				4.68	4.68	
RP-HUHTP40-023	3	ENSG00000138639	ARHGAP24		Rho GTPase activating protein 24 [Source:HGNC Sym- bol;Acc:HGNC:25361]			Sym-	2.58	2.58	
RP-HUHTP40-023	3	ENSG00000173559	NABP1		nucleic acid binding protein 1 [Source:HGNC bol;Acc:HGNC:26232]			Sym-	1.85	1.85	
RP-HUHTP40-024	2	ENSG00000106823	ECM2		extracellular matrix protein 2 [Source:HGNC bol;Acc:HGNC:3154]			Sym-	0.12	0.12	
RP-HUHTP40-024	2	ENSG00000056736	IL17RB		interleukin 17 receptor B [Source:HGNC bol;Acc:HGNC:18015]			Sym-	0.04	0.04	
RP-HUHTP40-025	3	ENSG00000106948	AKNA		AT-hook transcription factor [Source:HGNC bol;Acc:HGNC:24108]			Sym-	5.97	5.97	
RP-HUHTP40-025	3	ENSG00000123095	BHLHE41		basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]				4.39	4.39	
RP-HUHTP40-025	3	ENSG00000048052	HDAC9		histone deacetylase 9 [Source:HGNC bol;Acc:HGNC:14065]			Sym-	5.26	5.26	
RP-HUHTP40-026	2	ENSG00000128965	CHAC1		ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]				4.58	4.58	
RP-HUHTP40-026	2	ENSG00000142409	ZNF787		zinc finger protein 787 [Source:HGNC bol;Acc:HGNC:26998]			Sym-	1.55	1.55	
RP-HUHTP40-027	2	ENSG00000138685	FGF2		fibroblast growth factor 2 [Source:HGNC bol;Acc:HGNC:3676]			Sym-	1.46	1.46	
RP-HUHTP40-027	2	ENSG00000167994	RAB3IL1		RAB3A interacting protein like 1 [Source:HGNC bol;Acc:HGNC:9780]			Sym-	2.10	2.10	
RP-HUHTP40-028	3	ENSG00000008394	MGST1		microsomal glutathione S-transferase 1 [Source:HGNC Sym- bol;Acc:HGNC:7061]				-0.12	-0.12	
RP-HUHTP40-028	3	ENSG00000052802	MSMO1		methylsterol monooxygenase 1 [Source:HGNC bol;Acc:HGNC:10545]			Sym-	-0.33	-0.33	
RP-HUHTP40-028	3	ENSG00000122884	P4HA1		prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC Sym- bol;Acc:HGNC:8546]			Sym-	-0.14	-0.14	
RP-HUHTP40-029	2	ENSG00000147408	CSGALNACT1		chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]				1.87	1.87	
RP-HUHTP40-029	2	ENSG00000123358	NR4A1		nuclear receptor subfamily 4 group A member 1 [Source:HGNC Symbol;Acc:HGNC:7980]				1.71	1.71	
RP-HUHTP40-030	3	ENSG00000164236	ANKRD33B		ankyrin repeat domain 33B [Source:HGNC bol;Acc:HGNC:35240]			Sym-	3.42	3.42	
RP-HUHTP40-030	3	ENSG00000215908	CROCCP2		ciliary rootlet coiled-coil, rootletin pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:28170]				2.84	2.84	
RP-HUHTP40-030	3	ENSG00000169871	TRIM56		tripartite motif containing 56 [Source:HGNC bol;Acc:HGNC:19028]			Sym-	1.39	1.39	
RP-HUHTP40-031	3	ENSG00000104880	ARHGEF18		Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]				2.92	2.92	
RP-HUHTP40-031	3	ENSG00000140105	WARS		tryptophanyl-tRNA synthetase [Source:HGNC bol;Acc:HGNC:12729]			Sym-	1.99	1.99	
RP-HUHTP40-031	3	ENSG00000158023	WDR66		WD repeat domain 66 [Source:HGNC bol;Acc:HGNC:28506]			Sym-	3.95	3.95	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	CYT
RP-HUHTP40-032	4	ENSG00000156030	ELMSAN1	ELM2 and Myb/SANT domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19853]	2.90	2.90
RP-HUHTP40-032	4	ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	3.93	3.93
RP-HUHTP40-032	4	ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	2.22	2.22
RP-HUHTP40-032	4	ENSG00000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	1.94	1.94
RP-HUHTP40-033	7	ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]	4.25	4.25
RP-HUHTP40-033	7	ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	5.95	5.95
RP-HUHTP40-033	7	ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	3.34	3.34
RP-HUHTP40-033	7	ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]	5.06	5.06
RP-HUHTP40-033	7	ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	3.97	3.97
RP-HUHTP40-033	7	ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	5.32	5.32
RP-HUHTP40-033	7	ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	3.63	3.63
RP-HUHTP40-034	5	ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	2.58	2.58
RP-HUHTP40-034	5	ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]	3.88	3.88
RP-HUHTP40-034	5	ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	2.91	2.91
RP-HUHTP40-034	5	ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	2.55	2.55
RP-HUHTP40-034	5	ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	2.12	2.12
RP-HUHTP40-035	3	ENSG00000164284	GRPEL2	GrpE like 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:21060]	1.84	1.84
RP-HUHTP40-035	3	ENSG00000158246	TENT5B	terminal nucleotidyltransferase 5B [Source:HGNC Symbol;Acc:HGNC:28273]	2.65	2.65
RP-HUHTP40-035	3	ENSG00000085644	ZNF213	zinc finger protein 213 [Source:HGNC Symbol;Acc:HGNC:13005]	2.42	2.42
RP-HUHTP40-036	3	ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	2.56	2.56
RP-HUHTP40-036	3	ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	4.41	4.41
RP-HUHTP40-036	3	ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	5.14	5.14
RP-HUHTP40-037	3	ENSG00000197063	MAFG	MAF bZIP transcription factor G [Source:HGNC Symbol;Acc:HGNC:6781]	3.09	3.09
RP-HUHTP40-037	3	ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	4.09	4.09
RP-HUHTP40-037	3	ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	3.50	3.50
RP-HUHTP40-038	2	ENSG00000180448	ARHGAP45	Rho GTPase activating protein 45 [Source:HGNC Symbol;Acc:HGNC:17102]	2.18	2.18
RP-HUHTP40-038	2	ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]	1.74	1.74
RP-HUHTP40-039	2	ENSG00000066697	MSANTD3	Myb/SANT DNA binding domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23370]	2.33	2.33
RP-HUHTP40-039	2	ENSG00000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	3.57	3.57
RP-HUHTP40-040	4	ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]	0.58	0.58
RP-HUHTP40-040	4	ENSG00000113161	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase [Source:HGNC Symbol;Acc:HGNC:5006]	0.44	0.44
RP-HUHTP40-040	4	ENSG00000104341	LAPTM4B	lysosomal protein transmembrane 4 beta [Source:HGNC Symbol;Acc:HGNC:13646]	0.48	0.48

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RP-HUHTP40-040	4	ENSG00000138823	MTTP	microsomal triglyceride transfer protein [Source:HGNC Symbol;Acc:HGNC:7467]	0.54	0.54
RP-HUHTP40-041	3	ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	4.08	4.08
RP-HUHTP40-041	3	ENSG0000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	2.38	2.38
RP-HUHTP40-041	3	ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]	2.32	2.32
RP-HUHTP40-042	3	ENSG00000175899	A2M	alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7]	0.30	0.30
RP-HUHTP40-042	3	ENSG00000171560	FGA	fibrinogen alpha chain [Source:HGNC Symbol;Acc:HGNC:3661]	0.39	0.39
RP-HUHTP40-042	3	ENSG00000074696	HACD3	3-hydroxyacyl-CoA dehydratase 3 [Source:HGNC Symbol;Acc:HGNC:24175]	0.16	0.16
RP-HUHTP40-043	3	ENSG00000167522	ANKRD11	ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:HGNC:21316]	1.84	1.84
RP-HUHTP40-043	3	ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	2.96	2.96
RP-HUHTP40-043	3	ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	2.04	2.04
RP-HUHTP40-044	2	ENSG00000179674	ARL14	ADP ribosylation factor like GTPase 14 [Source:HGNC Symbol;Acc:HGNC:22974]	3.72	3.72
RP-HUHTP40-044	2	ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]	2.10	2.10
RP-HUHTP40-045	2	ENSG00000136383	ALPK3	alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:17574]	3.47	3.47
RP-HUHTP40-045	2	ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	2.18	2.18
RP-HUHTP40-046	3	ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	3.26	3.26
RP-HUHTP40-046	3	ENSG00000079313	REXO1	RNA exonuclease 1 homolog [Source:HGNC Symbol;Acc:HGNC:24616]	2.26	2.26
RP-HUHTP40-046	3	ENSG00000154370	TRIM11	tripartite motif containing 11 [Source:HGNC Symbol;Acc:HGNC:16281]	1.97	1.97
RP-HUHTP40-047	3	ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	4.80	4.80
RP-HUHTP40-047	3	ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	2.95	2.95
RP-HUHTP40-047	3	ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	3.36	3.36
RP-HUHTP40-048	2	ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	5.33	5.33
RP-HUHTP40-048	2	ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	3.06	3.06
RP-HUHTP40-049	4	ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	4.65	4.65
RP-HUHTP40-049	4	ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	6.37	6.37
RP-HUHTP40-049	4	ENSG00000178685	PARP10	poly(ADP-ribose) polymerase family member 10 [Source:HGNC Symbol;Acc:HGNC:25895]	3.14	3.14
RP-HUHTP40-049	4	ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	4.94	4.94
RP-HUHTP40-050	2	ENSG00000050130	JKAMP	JNK1/MAPK8 associated membrane protein [Source:HGNC Symbol;Acc:HGNC:20184]	0.07	0.07
RP-HUHTP40-050	2	ENSG00000107798	LIPA	lipase A, lysosomal acid type [Source:HGNC Symbol;Acc:HGNC:6617]	0.31	0.31
RP-HUHTP40-051	4	ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	4.91	4.91
RP-HUHTP40-051	4	ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	5.21	5.21
RP-HUHTP40-051	4	ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	4.61	4.61
RP-HUHTP40-051	4	ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	5.32	5.32
RP-HUHTP40-052	3	ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	4.01	4.01

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP40-052	3	ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]	3.19	3.19
RP-HUHTP40-052	3	ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	3.49	3.49
RP-HUHTP40-053	2	ENSG0000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	2.41	2.41
RP-HUHTP40-053	2	ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	3.61	3.61
RP-HUHTP40-054	2	ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	4.77	4.77
RP-HUHTP40-054	2	ENSG00000197355	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1 [Source:HGNC Symbol;Acc:HGNC:28082]	3.08	3.08
RP-HUHTP40-055	2	ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	5.53	5.53
RP-HUHTP40-055	2	ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	2.38	2.38
RP-HUHTP40-056	5	ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	2.24	2.24
RP-HUHTP40-056	5	ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	2.57	2.57
RP-HUHTP40-056	5	ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]	2.18	2.18
RP-HUHTP40-056	5	ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	4.09	4.09
RP-HUHTP40-056	5	ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	2.17	2.17
RP-HUHTP40-057	2	ENSG00000271707	ATP1B3P1	ATPase Na+/K+ transporting subunit beta 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:807]	0.11	0.11
RP-HUHTP40-057	2	ENSG00000003436	TFPI	tissue factor pathway inhibitor [Source:HGNC Symbol;Acc:HGNC:11760]	0.31	0.31
RP-HUHTP40-058	4	ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene) [Source:HGNC Symbol;Acc:HGNC:4969]	3.25	3.25
RP-HUHTP40-058	4	ENSG00000104856	RELB	RELB proto-oncogene, NF-κB subunit [Source:HGNC Symbol;Acc:HGNC:9956]	4.14	4.14
RP-HUHTP40-058	4	ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	3.75	3.75
RP-HUHTP40-058	4	ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	4.09	4.09
RP-HUHTP40-059	4	ENSG00000104936	DMPK	DM1 protein kinase [Source:HGNC Symbol;Acc:HGNC:2933]	2.58	2.58
RP-HUHTP40-059	4	ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	6.40	6.40
RP-HUHTP40-059	4	ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	4.71	4.71
RP-HUHTP40-059	4	ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]	3.02	3.02
RP-HUHTP40-060	6	ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	3.42	3.42
RP-HUHTP40-060	6	ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]	3.14	3.14
RP-HUHTP40-060	6	ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	3.78	3.78
RP-HUHTP40-060	6	ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	3.23	3.23
RP-HUHTP40-060	6	ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	3.46	3.46
RP-HUHTP40-060	6	ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	2.93	2.93
RP-HUHTP40-061	2	ENSG00000253846	PCDHGA10	protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]	-0.11	-0.11
RP-HUHTP40-061	2	ENSG00000000003	TSPAN6	tetraspanin 6 [Source:HGNC Symbol;Acc:HGNC:11858]	0.10	0.10
RP-HUHTP40-062	2	ENSG00000174684	B4GAT1	beta-1,4-glucuronidyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]	-0.23	-0.23
RP-HUHTP40-062	2	ENSG00000111885	MAN1A1	mannosidase alpha class 1A member 1 [Source:HGNC Symbol;Acc:HGNC:6821]	-0.04	-0.04
RP-HUHTP40-063	3	ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]	4.40	4.40

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RP-HUHTP40-063	3	ENSG00000282870	FRG1DP	FSHD region gene 1 family member D, pseudogene [Source:HGNC Symbol;Acc:HGNC:51763]	3.50	3.50
RP-HUHTP40-063	3	ENSG00000166012	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:HGNC Symbol;Acc:HGNC:28759]	2.30	2.30
RP-HUHTP40-064	2	ENSG00000141084	RANBP10	RAN binding protein 10 [Source:HGNC Symbol;Acc:HGNC:29285]	1.31	1.31
RP-HUHTP40-064	2	ENSG00000088826	SMOX	spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]	1.14	1.14
RP-HUHTP40-065	3	ENSG00000175283	DOLK	dolichol kinase [Source:HGNC Symbol;Acc:HGNC:23406]	-0.17	-0.17
RP-HUHTP40-065	3	ENSG00000122378	PRXL2A	peroxiredoxin like 2A [Source:HGNC Symbol;Acc:HGNC:28651]	-0.51	-0.51
RP-HUHTP40-065	3	ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]	-0.33	-0.33
RP-HUHTP40-066	3	ENSG00000272269			2.79	2.79
RP-HUHTP40-066	3	ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]	1.45	1.45
RP-HUHTP40-066	3	ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	2.09	2.09
RP-HUHTP40-067	4	ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	3.65	3.65
RP-HUHTP40-067	4	ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	3.85	3.85
RP-HUHTP40-067	4	ENSG00000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	2.00	2.00
RP-HUHTP40-067	4	ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	2.49	2.49
RP-HUHTP40-068	2	ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	3.43	3.43
RP-HUHTP40-068	2	ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	1.93	1.93
RP-HUHTP40-069	3	ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	2.22	2.22
RP-HUHTP40-069	3	ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]	1.57	1.57
RP-HUHTP40-069	3	ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	2.17	2.17
RP-HUHTP40-070	2	ENSG00000197965	MPZL1	myelin protein zero like 1 [Source:HGNC Symbol;Acc:HGNC:7226]	0.12	0.12
RP-HUHTP40-070	2	ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	0.03	0.03
RP-HUHTP40-071	7	ENSG00000159063	ALG8	ALG8, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23161]	0.39	0.39
RP-HUHTP40-071	7	ENSG00000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]	0.40	0.40
RP-HUHTP40-071	7	ENSG00000147257	GPC3	glycan 3 [Source:HGNC Symbol;Acc:HGNC:4451]	0.65	0.65
RP-HUHTP40-071	7	ENSG00000135862	LAMC1	laminin subunit gamma 1 [Source:HGNC Symbol;Acc:HGNC:6492]	0.32	0.32
RP-HUHTP40-071	7	ENSG00000073060	SCARB1	scavenger receptor class B member 1 [Source:HGNC Symbol;Acc:HGNC:1664]	0.29	0.29
RP-HUHTP40-071	7	ENSG00000188488	SERPINA5	serpin family A member 5 [Source:HGNC Symbol;Acc:HGNC:8723]	0.31	0.31
RP-HUHTP40-071	7	ENSG00000091513	TF	transferrin [Source:HGNC Symbol;Acc:HGNC:11740]	0.34	0.34
RP-HUHTP40-072	3	ENSG00000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]	1.62	1.62
RP-HUHTP40-072	3	ENSG00000196123	KIAA0895L	KIAA0895 like [Source:HGNC Symbol;Acc:HGNC:34408]	1.67	1.67
RP-HUHTP40-072	3	ENSG00000166261	ZNF202	zinc finger protein 202 [Source:HGNC Symbol;Acc:HGNC:12994]	1.81	1.81
RP-HUHTP40-073	2	ENSG00000177119	ANO6	anoctamin 6 [Source:HGNC Symbol;Acc:HGNC:25240]	-0.08	-0.08
RP-HUHTP40-073	2	ENSG00000157087	ATP2B2	ATPase plasma membrane Ca2+ transporting 2 [Source:HGNC Symbol;Acc:HGNC:815]	-0.70	-0.70
RP-HUHTP40-074	2	ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	3.93	3.93
RP-HUHTP40-074	2	ENSG00000113811	SELENOK	seleoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	3.14	3.14
RP-HUHTP40-075	2	ENSG00000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]	2.07	2.07
RP-HUHTP40-075	2	ENSG00000101665	SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:HGNC:6773]	1.32	1.32
RP-HUHTP40-076	5	ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	3.17	3.17

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log ₂ FC	Log ₂ FC CYT ER
				deoxyhypusine	hydroxylase	[Source:HGNC	Sym-	2.35	2.35	
RP-HUHTP40-076	5	ENSG00000129932	DOHH	bol;Acc:HGNC:28662]						
RP-HUHTP40-076	5	ENSG00000105656	ELL	elongation factor for RNA polymerase II [Source:HGNC Symbol;Acc:HGNC:23114]				1.47	1.47	
RP-HUHTP40-076	5	ENSG00000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]				2.98	2.98	
RP-HUHTP40-076	5	ENSG00000165655	ZNF503	zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23589]				2.03	2.03	
RP-HUHTP40-077	2	ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]				2.09	2.09	
RP-HUHTP40-077	2	ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]				4.01	4.01	
RP-HUHTP40-078	2	ENSG00000261819						-2.74	-2.74	
RP-HUHTP40-078	2	ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]				-2.26	-2.26	
RP-HUHTP40-079	2	ENSG00000109089	CDR2L	cerebellar degeneration related protein 2 like [Source:HGNC Symbol;Acc:HGNC:29999]				1.78	1.78	
RP-HUHTP40-079	2	ENSG00000118046	STK11	serine/threonine kinase 11 [Source:HGNC Symbol;Acc:HGNC:11389]				1.45	1.45	
RP-HUHTP40-080	5	ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]				2.67	2.67	
RP-HUHTP40-080	5	ENSG00000156860	FBRS	fibrosin [Source:HGNC Symbol;Acc:HGNC:20442]				1.89	1.89	
RP-HUHTP40-080	5	ENSG00000116786	PLEKHM2	pleckstrin homology and RUN domain containing M2 [Source:HGNC Symbol;Acc:HGNC:29131]				1.62	1.62	
RP-HUHTP40-080	5	ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]				2.21	2.21	
RP-HUHTP40-080	5	ENSG00000100403	ZC3H7B	zinc finger CCCH-type containing 7B [Source:HGNC Symbol;Acc:HGNC:30869]				1.75	1.75	
RP-HUHTP40-081	2	ENSG00000105325	FZR1	fizzy and cell division cycle 20 related 1 [Source:HGNC Symbol;Acc:HGNC:24824]				1.79	1.79	
RP-HUHTP40-081	2	ENSG00000197483	ZNF628	zinc finger protein 628 [Source:HGNC Symbol;Acc:HGNC:28054]				2.73	2.73	
RP-HUHTP40-082	3	ENSG0000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]				2.78	2.78	
RP-HUHTP40-082	3	ENSG00000232956	SNHG15	small nucleolar RNA host gene 15 [Source:HGNC Symbol;Acc:HGNC:27797]				2.61	2.61	
RP-HUHTP40-082	3	ENSG00000113272	THG1L	tRNA-histidine guanylyltransferase 1 like [Source:HGNC Symbol;Acc:HGNC:26053]				2.36	2.36	
RP-HUHTP40-083	2	ENSG00000123838	C4BPA	complement component 4 binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1325]				-0.59	-0.59	
RP-HUHTP40-083	2	ENSG00000228278	ORM2	orosomucoid 2 [Source:HGNC Symbol;Acc:HGNC:8499]				-0.19	-0.19	
RP-HUHTP40-084	2	ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]				5.43	5.43	
RP-HUHTP40-084	2	ENSG00000167962	ZNF598	zinc finger protein 598 [Source:HGNC Symbol;Acc:HGNC:28079]				1.92	1.92	
RP-HUHTP40-085	8	ENSG00000081051	AFP	alpha fetoprotein [Source:HGNC Symbol;Acc:HGNC:317]				0.15	0.15	
RP-HUHTP40-085	8	ENSG00000163631	ALB	albumin [Source:HGNC Symbol;Acc:HGNC:399]				0.33	0.33	
RP-HUHTP40-085	8	ENSG00000069849	ATP1B3	ATPase Na ⁺ /K ⁺ transporting subunit beta 3 [Source:HGNC Symbol;Acc:HGNC:806]				0.23	0.23	
RP-HUHTP40-085	8	ENSG00000107984	DKK1	dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:2891]				0.06	0.06	
RP-HUHTP40-085	8	ENSG00000085871	MGST2	microsomal glutathione S-transferase 2 [Source:HGNC Symbol;Acc:HGNC:7063]				-0.04	-0.04	
RP-HUHTP40-085	8	ENSG00000149573	MPZL2	myelin protein zero like 2 [Source:HGNC Symbol;Acc:HGNC:3496]				0.11	0.11	
RP-HUHTP40-085	8	ENSG00000152952	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]				0.05	0.05	
RP-HUHTP40-085	8	ENSG00000109929	SC5D	sterol-C5-desaturase [Source:HGNC Symbol;Acc:HGNC:10547]				0.30	0.30	
RP-HUHTP40-086	2	ENSG00000099812	MISP	mitotic spindle positioning [Source:HGNC Symbol;Acc:HGNC:27000]				2.72	2.72	
RP-HUHTP40-086	2	ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic 128, pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]				3.89	3.89	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>		
					FC	CYT	FC
							ER
RP-HUHTP40-087	2	ENSG00000173905	GOLM4	golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15448]	-0.42	-0.42	
RP-HUHTP40-087	2	ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]	-0.41	-0.41	
RP-HUHTP40-088	2	ENSG00000074590	NUAK1	NUAK family kinase 1 [Source:HGNC Symbol;Acc:HGNC:14311]	1.51	1.51	
RP-HUHTP40-088	2	ENSG00000100014	SPECC1L	sperm antigen with calponin homology and coiled-coil domains 1 like [Source:HGNC Symbol;Acc:HGNC:29022]	2.09	2.09	
RP-HUHTP40-089	2	ENSG00000147255	IGSF1	immunoglobulin superfamily member 1 [Source:HGNC Symbol;Acc:HGNC:5948]	0.72	0.72	
RP-HUHTP40-089	2	ENSG00000213949	ITGA1	integrin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6134]	0.68	0.68	
RP-HUHTP40-090	4	ENSG00000110245	APOC3	apolipoprotein C3 [Source:HGNC Symbol;Acc:HGNC:610]	0.40	0.40	
RP-HUHTP40-090	4	ENSG00000157399	ARSE	arylsulfatase E [Source:HGNC Symbol;Acc:HGNC:719]	0.32	0.32	
RP-HUHTP40-090	4	ENSG00000149084	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646]	0.21	0.21	
RP-HUHTP40-090	4	ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]	0.47	0.47	
RP-HUHTP40-091	3	ENSG00000146676	PURB	purine rich element binding protein B [Source:HGNC Symbol;Acc:HGNC:9702]	1.35	1.35	
RP-HUHTP40-091	3	ENSG00000139718	SETD1B	SET domain containing 1B [Source:HGNC Symbol;Acc:HGNC:29187]	1.04	1.04	
RP-HUHTP40-091	3	ENSG00000198369	SPRED2	sprouty related EVH1 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17722]	1.41	1.41	
RP-HUHTP40-092	2	ENSG00000091583	APOH	apolipoprotein H [Source:HGNC Symbol;Acc:HGNC:616]	0.35	0.35	
RP-HUHTP40-092	2	ENSG00000112818	MEP1A	meprin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]	0.02	0.02	
RP-HUHTP40-093	3	ENSG00000117298	ECE1	endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:HGNC:3146]	-0.08	-0.08	
RP-HUHTP40-093	3	ENSG00000107789	MINPP1	multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:7102]	0.02	0.02	
RP-HUHTP40-093	3	ENSG00000198732	SMOC1	SPARC related modular calcium binding 1 [Source:HGNC Symbol;Acc:HGNC:20318]	-0.07	-0.07	
RP-HUHTP40-094	3	ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	1.04	1.04	
RP-HUHTP40-094	3	ENSG00000141994	DUS3L	dihydrouridine synthase 3 like [Source:HGNC Symbol;Acc:HGNC:26920]	1.77	1.77	
RP-HUHTP40-094	3	ENSG00000174276	ZNHIT2	zinc finger HIT-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1177]	1.80	1.80	
RP-HUHTP40-095	2	ENSG00000263528	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon [Source:HGNC Symbol;Acc:HGNC:14552]	2.80	2.80	
RP-HUHTP40-095	2	ENSG00000006062	MAP3K14	mitogen-activated protein kinase kinase kinase 14 [Source:HGNC Symbol;Acc:HGNC:6853]	1.64	1.64	
RP-HUHTP40-096	6	ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	7.81	7.81	
RP-HUHTP40-096	6	ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	10.46	10.46	
RP-HUHTP40-096	6	ENSG0000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	2.86	2.86	
RP-HUHTP40-096	6	ENSG00000178209	PLEC	plectin [Source:HGNC Symbol;Acc:HGNC:9069]	2.95	2.95	
RP-HUHTP40-096	6	ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	6.30	6.30	
RP-HUHTP40-096	6	ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	4.46	4.46	
RP-HUHTP40-097	6	ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	5.91	5.91	
RP-HUHTP40-097	6	ENSG00000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]	2.79	2.79	
RP-HUHTP40-097	6	ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	4.79	4.79	
RP-HUHTP40-097	6	ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	4.29	4.29	
RP-HUHTP40-097	6	ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	5.04	5.04	
RP-HUHTP40-097	6	ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	6.57	6.57	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RP-HUHTP40-098	4	ENSG00000108582	CPD	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]	0.20	0.20
RP-HUHTP40-098	4	ENSG00000109861	CTSC	cathepsin C [Source:HGNC Symbol;Acc:HGNC:2528]	0.40	0.40
RP-HUHTP40-098	4	ENSG00000121316	PLBD1	phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26215]	0.72	0.72
RP-HUHTP40-098	4	ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]	0.22	0.22
RP-HUHTP40-099	5	ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	3.43	3.43
RP-HUHTP40-099	5	ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	4.49	4.49
RP-HUHTP40-099	5	ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	3.84	3.84
RP-HUHTP40-099	5	ENSG00000169926	KLF13	Kruppel like factor 13 [Source:HGNC Symbol;Acc:HGNC:13672]	1.77	1.77
RP-HUHTP40-099	5	ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	3.63	3.63
RP-HUHTP40-100	2	ENSG00000167566	NCKAP5L	NCK associated protein 5 like [Source:HGNC Symbol;Acc:HGNC:29321]	2.16	2.16
RP-HUHTP40-100	2	ENSG00000205356	TECPR1	tectonin beta-propeller repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:22214]	2.01	2.01
RP-HUHTP40-101	2	ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:2646]	-2.26	-2.26
RP-HUHTP40-101	2	ENSG00000176826	FKBP9P1	FK506 binding protein 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23568]	-1.15	-1.15
RP-HUHTP40-102	2	ENSG00000079557	AFM	afamin [Source:HGNC Symbol;Acc:HGNC:316]	-1.15	-1.15
RP-HUHTP40-102	2	ENSG00000114200	BCHE	butyrylcholinesterase [Source:HGNC Symbol;Acc:HGNC:983]	-1.55	-1.55
RP-HUHTP40-103	2	ENSG00000158079	PTPDC1	protein tyrosine phosphatase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:30184]	1.68	1.68
RP-HUHTP40-103	2	ENSG00000242756	RHOT1P3	ras homolog family member T1 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:37839]	1.86	1.86
RP-HUHTP40-104	2	ENSG00000111642	CHD4	chromodomain helicase DNA binding protein 4 [Source:HGNC Symbol;Acc:HGNC:1919]	1.15	1.15
RP-HUHTP40-104	2	ENSG00000047644	WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:HGNC:29237]	1.62	1.62
RP-HUHTP40-105	7	ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	4.10	4.10
RP-HUHTP40-105	7	ENSG00000204387	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:HGNC:19078]	2.47	2.47
RP-HUHTP40-105	7	ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3797]	5.05	5.05
RP-HUHTP40-105	7	ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	4.25	4.25
RP-HUHTP40-105	7	ENSG00000156510	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23302]	2.40	2.40
RP-HUHTP40-105	7	ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	3.09	3.09
RP-HUHTP40-105	7	ENSG00000177410	ZFAS1	ZNFX1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33101]	1.95	1.95
RP-HUHTP40-106	2	ENSG00000112787	FBRSL1	fibrosin like 1 [Source:HGNC Symbol;Acc:HGNC:29308]	1.39	1.39
RP-HUHTP40-106	2	ENSG00000167395	ZNF646	zinc finger protein 646 [Source:HGNC Symbol;Acc:HGNC:29004]	1.70	1.70
RP-HUHTP40-107	7	ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	5.21	5.21
RP-HUHTP40-107	7	ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	2.82	2.82
RP-HUHTP40-107	7	ENSG00000185950	IRS2	insulin receptor substrate 2 [Source:HGNC Symbol;Acc:HGNC:6126]	3.19	3.19
RP-HUHTP40-107	7	ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	4.29	4.29
RP-HUHTP40-107	7	ENSG00000064932	SBNO2	strawberry notch homolog 2 [Source:HGNC Symbol;Acc:HGNC:29158]	2.96	2.96

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2		
					FC	CYT	FC
RP-HUHTP40-107	7	ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	4	2.85	2.85
RP-HUHTP40-107	7	ENSG00000092929	UNC13D	unc-13 homolog D [Source:HGNC Symbol;Acc:HGNC:23147]	2.73	2.73	
RP-HUHTP40-108	2	ENSG00000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	0.60	0.60	
RP-HUHTP40-108	2	ENSG00000103168	TAF1C	TATA-box binding protein associated factor, RNA polymerase I subunit C [Source:HGNC Symbol;Acc:HGNC:11534]	0.52	0.52	
RP-HUHTP40-109	2	ENSG00000251562	MALAT1	metastasis associated lung adenocarcinoma transcript 1 [Source:HGNC Symbol;Acc:HGNC:29665]	1.09	1.09	
RP-HUHTP40-109	2	ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]	2.00	2.00	
RP-HUHTP40-110	2	ENSG00000122861	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:HGNC:9052]	-2.06	-2.06	
RP-HUHTP40-110	2	ENSG00000188338	SLC38A3	solute carrier family 38 member 3 [Source:HGNC Symbol;Acc:HGNC:18044]	-1.51	-1.51	
RP-HUHTP40-111	4	ENSG00000143278	F13B	coagulation factor XIII B chain [Source:HGNC Symbol;Acc:HGNC:3534]	-0.05	-0.05	
RP-HUHTP40-111	4	ENSG00000116005	PCYOX1	prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:HGNC:20588]	0.01	0.01	
RP-HUHTP40-111	4	ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	0.24	0.24	
RP-HUHTP40-111	4	ENSG00000117906	RCN2	reticulocalbin 2 [Source:HGNC Symbol;Acc:HGNC:9935]	-0.06	-0.06	
RP-HUHTP40-112	3	ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	1.87	1.87	
RP-HUHTP40-112	3	ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	1.87	1.87	
RP-HUHTP40-112	3	ENSG00000197283	SYNGAP1	synaptic Ras GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:11497]	1.95	1.95	
RP-HUHTP40-113	3	ENSG00000169562	GJB1	gap junction protein beta 1 [Source:HGNC Symbol;Acc:HGNC:4283]	-0.57	-0.57	
RP-HUHTP40-113	3	ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]	-0.61	-0.61	
RP-HUHTP40-113	3	ENSG00000141485	SLC13A5	solute carrier family 13 member 5 [Source:HGNC Symbol;Acc:HGNC:23089]	-0.74	-0.74	
RP-HUHTP40-114	2	ENSG00000113492	AGXT2	alanine-glyoxylate aminotransferase 2 [Source:HGNC Symbol;Acc:HGNC:14412]	-3.09	-3.09	
RP-HUHTP40-114	2	ENSG00000249948	GBA3	glucosylceramidase beta 3 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:19069]	-3.39	-3.39	
RP-HUHTP40-115	2	ENSG00000233588	CYP51A1P2	cytochrome P450 family 51 subfamily A member 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:20251]	-0.29	-0.29	
RP-HUHTP40-115	2	ENSG00000232829	GSTO3P	glutathione S-transferase omega 3, pseudogene [Source:HGNC Symbol;Acc:HGNC:23065]	-0.64	-0.64	
RP-HUHTP40-116	3	ENSG00000105298	CACTIN	cactin, spliceosome C complex subunit [Source:HGNC Symbol;Acc:HGNC:29938]	1.97	1.97	
RP-HUHTP40-116	3	ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	1.97	1.97	
RP-HUHTP40-116	3	ENSG00000125503	PPP1R12C	protein phosphatase 1 regulatory subunit 12C [Source:HGNC Symbol;Acc:HGNC:14947]	2.16	2.16	
RP-HUHTP40-117	4	ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	3.86	3.86	
RP-HUHTP40-117	4	ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	4.19	4.19	
RP-HUHTP40-117	4	ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	5.09	5.09	
RP-HUHTP40-117	4	ENSG00000181588	MEX3D	mex-3 RNA binding family member D [Source:HGNC Symbol;Acc:HGNC:16734]	1.47	1.47	
RP-HUHTP40-118	7	ENSG00000163399	ATP1A1	ATPase Na+/K+ transporting subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:799]	0.31	0.31	
RP-HUHTP40-118	7	ENSG00000143153	ATP1B1	ATPase Na+/K+ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]	0.16	0.16	
RP-HUHTP40-118	7	ENSG00000054983	GALC	galactosylceramidase [Source:HGNC Symbol;Acc:HGNC:4115]	0.26	0.26	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RP-HUHTP40-118	7	ENSG00000112893	MAN2A1	mannosidase alpha class 2A member 1 [Source:HGNC Symbol;Acc:HGNC:6824]	0.06	0.06
RP-HUHTP40-118	7	ENSG0000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]	0.54	0.54
RP-HUHTP40-118	7	ENSG00000135317	SNX14	sorting nexin 14 [Source:HGNC Symbol;Acc:HGNC:14977]	0.18	0.18
RP-HUHTP40-118	7	ENSG00000064115	TM7SF3	transmembrane 7 superfamily member 3 [Source:HGNC Symbol;Acc:HGNC:23049]	0.18	0.18
RP-HUHTP40-119	4	ENSG00000105321	CCDC9	coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:HGNC:24560]	2.06	2.06
RP-HUHTP40-119	4	ENSG00000099949	LZTR1	leucine zipper like transcription regulator 1 [Source:HGNC Symbol;Acc:HGNC:6742]	1.96	1.96
RP-HUHTP40-119	4	ENSG00000131408	NR1H2	nuclear receptor subfamily 1 group H member 2 [Source:HGNC Symbol;Acc:HGNC:7965]	2.48	2.48
RP-HUHTP40-119	4	ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]	2.43	2.43
RP-HUHTP40-120	3	ENSG00000141429	GALNT1	polypeptide N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4123]	-0.49	-0.49
RP-HUHTP40-120	3	ENSG00000179399	GPC5	glycan 5 [Source:HGNC Symbol;Acc:HGNC:4453]	-0.71	-0.71
RP-HUHTP40-120	3	ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]	-0.47	-0.47
RP-HUHTP40-121	5	ENSG00000088812	ATRN	attractin [Source:HGNC Symbol;Acc:HGNC:885]	0.71	0.71
RP-HUHTP40-121	5	ENSG00000113249	HAVCR1	hepatitis A virus cellular receptor 1 [Source:HGNC Symbol;Acc:HGNC:17866]	0.95	0.95
RP-HUHTP40-121	5	ENSG00000167711	SERPINF2	serpin family F member 2 [Source:HGNC Symbol;Acc:HGNC:9075]	0.65	0.65
RP-HUHTP40-121	5	ENSG00000139324	TMTC3	transmembrane and tetratricopeptide repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:26899]	0.69	0.69
RP-HUHTP40-121	5	ENSG00000104723	TUSC3	tumor suppressor candidate 3 [Source:HGNC Symbol;Acc:HGNC:30242]	0.84	0.84
RP-HUHTP40-122	4	ENSG00000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]	-0.25	-0.25
RP-HUHTP40-122	4	ENSG00000083857	FAT1	FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:HGNC:3595]	-0.41	-0.41
RP-HUHTP40-122	4	ENSG00000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]	-0.58	-0.58
RP-HUHTP40-122	4	ENSG00000099194	SCD	stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:10571]	-0.40	-0.40
RP-HUHTP40-123	7	ENSG00000146067	FAM193B	family with sequence similarity 193 member B [Source:HGNC Symbol;Acc:HGNC:25524]	1.63	1.63
RP-HUHTP40-123	7	ENSG00000168495	POLR3D	RNA polymerase III subunit D [Source:HGNC Symbol;Acc:HGNC:1080]	1.27	1.27
RP-HUHTP40-123	7	ENSG00000104866	PPP1R37	protein phosphatase 1 regulatory subunit 37 [Source:HGNC Symbol;Acc:HGNC:27607]	1.47	1.47
RP-HUHTP40-123	7	ENSG00000187605	TET3	tet methylcytosine dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:28313]	1.38	1.38
RP-HUHTP40-123	7	ENSG00000068323	TFE3	transcription factor binding to IGHM enhancer 3 [Source:HGNC Symbol;Acc:HGNC:11752]	1.21	1.21
RP-HUHTP40-123	7	ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	1.97	1.97
RP-HUHTP40-123	7	ENSG00000171161	ZNF672	zinc finger protein 672 [Source:HGNC Symbol;Acc:HGNC:26179]	1.21	1.21
RP-HUHTP40-124	6	ENSG00000129474	AJUBA	ajuba LIM protein [Source:HGNC Symbol;Acc:HGNC:20250]	1.95	1.95
RP-HUHTP40-124	6	ENSG00000100425	BRD1	bromodomain containing 1 [Source:HGNC Symbol;Acc:HGNC:1102]	1.37	1.37
RP-HUHTP40-124	6	ENSG0000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]	2.51	2.51
RP-HUHTP40-124	6	ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]	2.33	2.33
RP-HUHTP40-124	6	ENSG00000171992	SYNPO	synaptopodin [Source:HGNC Symbol;Acc:HGNC:30672]	1.83	1.83
RP-HUHTP40-124	6	ENSG00000116809	ZBTB17	zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:HGNC:12936]	1.87	1.87
RP-HUHTP40-125	6	ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]	-0.31	-0.31
RP-HUHTP40-125	6	ENSG00000147155	EBP	EBP, cholestenol delta-isomerase [Source:HGNC Symbol;Acc:HGNC:3133]	-0.30	-0.30

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					\log_2 FC	\log_2 FC CYT	\log_2 ER
				FAT	atypical cadherin bol;Acc:HGNC:23109]	4	[Source:HGNC	Sym-			
RP-HUHTP40-125	6	ENSG00000196159	FAT4	ferric chelate reductase bol;Acc:HGNC:27622]	1	[Source:HGNC	Sym-	-0.33	-0.33		
RP-HUHTP40-125	6	ENSG00000156869	FRRS1	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]				-0.33	-0.33		
RP-HUHTP40-125	6	ENSG00000134243	SORT1	ST6 beta-galactoside alpha-2,6-sialyltransferase [Source:HGNC Symbol;Acc:HGNC:10860]	1			-0.53	-0.53		
RP-HUHTP40-125	6	ENSG00000073849	ST6GAL1	zinc finger protein 304 bol;Acc:HGNC:13505]	304	[Source:HGNC	Sym-	1.90	1.90		
RP-HUHTP40-126	2	ENSG00000131845	ZNF304	zinc finger protein 512B bol;Acc:HGNC:29212]	512B	[Source:HGNC	Sym-	1.27	1.27		
RP-HUHTP40-127	3	ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]				1.26	1.26		
RP-HUHTP40-127	3	ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]				1.79	1.79		
RP-HUHTP40-127	3	ENSG00000181722	ZBTB20	zinc finger and BTB domain containing 20 [Source:HGNC Symbol;Acc:HGNC:13503]				1.29	1.29		
RP-HUHTP40-128	3	ENSG00000241935	HOGA1	4-hydroxy-2-oxoglutarate aldolase 1 [Source:HGNC Symbol;Acc:HGNC:25155]				-1.55	-1.55		
RP-HUHTP40-128	3	ENSG00000135916	ITM2C	integral membrane protein 2C [Source:HGNC Symbol;Acc:HGNC:6175]				-0.70	-0.70		
RP-HUHTP40-128	3	ENSG00000117834	SLC5A9	solute carrier family 5 member 9 [Source:HGNC Symbol;Acc:HGNC:22146]				-1.16	-1.16		
RP-HUHTP40-129	8	ENSG00000114019	AMOTL2	angiomotin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]				3.16	3.16		
RP-HUHTP40-129	8	ENSG00000106665	CLIP2	CAP-Gly domain containing linker protein 2 [Source:HGNC Symbol;Acc:HGNC:2586]				1.14	1.14		
RP-HUHTP40-129	8	ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]				2.07	2.07		
RP-HUHTP40-129	8	ENSG00000101216	GMEB2	glucocorticoid modulatory element binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4371]				2.07	2.07		
RP-HUHTP40-129	8	ENSG00000061273	HDAC7	histone deacetylase 7 [Source:HGNC Symbol;Acc:HGNC:14067]	7	[Source:HGNC	Sym-	1.69	1.69		
RP-HUHTP40-129	8	ENSG00000167378	IRGQ	immunity related GTPase Q [Source:HGNC Symbol;Acc:HGNC:24868]				1.86	1.86		
RP-HUHTP40-129	8	ENSG00000183963	SMTN	smoothelin [Source:HGNC Symbol;Acc:HGNC:11126]				1.62	1.62		
RP-HUHTP40-129	8	ENSG00000106266	SNX8	sorting nexin 8 [Source:HGNC Symbol;Acc:HGNC:14972]				2.11	2.11		
RP-HUHTP40-130	2	ENSG00000169550	MUC15	mucin 15, cell surface associated [Source:HGNC Symbol;Acc:HGNC:14956]				-0.04	-0.04		
RP-HUHTP40-130	2	ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]				-0.60	-0.60		
RP-HUHTP40-131	3	ENSG00000178301	AQP11	aquaporin 11 [Source:HGNC Symbol;Acc:HGNC:19940]				-1.24	-1.24		
RP-HUHTP40-131	3	ENSG00000110881	ASIC1	acid sensing ion channel subunit 1 [Source:HGNC Symbol;Acc:HGNC:100]				-1.06	-1.06		
RP-HUHTP40-131	3	ENSG00000163823	CCR1	C-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:1602]				-0.93	-0.93		
RP-HUHTP40-132	3	ENSG00000180745	CLRN3	clarin 3 [Source:HGNC Symbol;Acc:HGNC:20795]				-1.51	-1.51		
RP-HUHTP40-132	3	ENSG00000170522	ELOVL6	ELOVL fatty acid elongase 6 [Source:HGNC Symbol;Acc:HGNC:15829]				-1.12	-1.12		
RP-HUHTP40-132	3	ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]				-2.13	-2.13		
RP-HUHTP40-133	4	ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]				0.54	0.54		
RP-HUHTP40-133	4	ENSG00000143815	LBR	lamin B receptor [Source:HGNC Symbol;Acc:HGNC:6518]				0.52	0.52		
RP-HUHTP40-133	4	ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]				0.76	0.76		
RP-HUHTP40-133	4	ENSG00000085365	SCAMP1	secretory carrier membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:10563]				0.10	0.10		
RP-HUHTP40-134	2	ENSG00000073605	GSDMB	gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]				2.25	2.25		
RP-HUHTP40-134	2	ENSG00000132274	TRIM22	tripartite motif containing 22 [Source:HGNC Symbol;Acc:HGNC:16379]	22	[Source:HGNC	Sym-	3.94	3.94		
RP-HUHTP40-135	2	ENSG00000110031	LPXN	leupaxin [Source:HGNC Symbol;Acc:HGNC:14061]				2.36	2.36		
RP-HUHTP40-135	2	ENSG00000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]				2.19	2.19		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP40-136	4	ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	2.72	2.72
RP-HUHTP40-136	4	ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	1.84	1.84
RP-HUHTP40-136	4	ENSG00000140044	JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:HGNC:17546]	2.13	2.13
RP-HUHTP40-136	4	ENSG00000198496	NBR2	neighbor of BRCA1 lncRNA 2 [Source:HGNC Symbol;Acc:HGNC:20691]	2.08	2.08
RP-HUHTP40-137	6	ENSG00000128272	ATF4	activating transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:786]	2.43	2.43
RP-HUHTP40-137	6	ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	4.17	4.17
RP-HUHTP40-137	6	ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	5.83	5.83
RP-HUHTP40-137	6	ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	4.60	4.60
RP-HUHTP40-137	6	ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	4.32	4.32
RP-HUHTP40-137	6	ENSG00000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]	2.86	2.86
RP-HUHTP40-138	3	ENSG00000135736	CCDC102A	coiled-coil domain containing 102A [Source:HGNC Symbol;Acc:HGNC:28097]	1.67	1.67
RP-HUHTP40-138	3	ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]	1.89	1.89
RP-HUHTP40-138	3	ENSG00000198026	ZNF335	zinc finger protein 335 [Source:HGNC Symbol;Acc:HGNC:15807]	1.58	1.58
RP-HUHTP40-139	3	ENSG00000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	-3.26	-3.26
RP-HUHTP40-139	3	ENSG0000005469	CROT	carnitine O-octanoyltransferase [Source:HGNC Symbol;Acc:HGNC:2366]	-2.90	-2.90
RP-HUHTP40-139	3	ENSG00000067992	PDK3	pyruvate dehydrogenase kinase 3 [Source:HGNC Symbol;Acc:HGNC:8811]	-3.12	-3.12
RP-HUHTP40-140	2	ENSG00000116815	CD58	CD58 molecule [Source:HGNC Symbol;Acc:HGNC:1688]	-0.23	-0.23
RP-HUHTP40-140	2	ENSG00000139508	SLC46A3	solute carrier family 46 member 3 [Source:HGNC Symbol;Acc:HGNC:27501]	-0.80	-0.80
RP-HUHTP40-141	2	ENSG00000167107	ACSF2	acyl-CoA synthetase family member 2 [Source:HGNC Symbol;Acc:HGNC:26101]	-1.16	-1.16
RP-HUHTP40-141	2	ENSG00000060566	CREB3L3	cAMP responsive element binding protein 3 like 3 [Source:HGNC Symbol;Acc:HGNC:18855]	-1.11	-1.11
RP-HUHTP40-142	2	ENSG00000165102	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase [Source:HGNC Symbol;Acc:HGNC:26527]	0.31	0.31
RP-HUHTP40-142	2	ENSG00000188167	TMPPE	transmembrane protein with metallophosphoesterase domain [Source:HGNC Symbol;Acc:HGNC:33865]	0.09	0.09
RP-HUHTP40-143	4	ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	4.43	4.43
RP-HUHTP40-143	4	ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]	3.63	3.63
RP-HUHTP40-143	4	ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	2.74	2.74
RP-HUHTP40-143	4	ENSG00000173898	SPTBN2	spectrin beta, non-erythrocytic 2 [Source:HGNC Symbol;Acc:HGNC:11276]	1.60	1.60
RP-HUHTP40-144	6	ENSG00000261227		novel transcript	4.13	4.13
RP-HUHTP40-144	6	ENSG00000131797	CLUHP3	clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447]	3.16	3.16
RP-HUHTP40-144	6	ENSG00000106701	FSD1L	fibronectin type III and SPRY domain containing 1 like [Source:HGNC Symbol;Acc:HGNC:13753]	1.84	1.84
RP-HUHTP40-144	6	ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]	2.95	2.95
RP-HUHTP40-144	6	ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]	3.44	3.44
RP-HUHTP40-144	6	ENSG00000163795	ZNF513	zinc finger protein 513 [Source:HGNC Symbol;Acc:HGNC:26498]	2.87	2.87

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHTP40-145	2	ENSG00000251136			2.54	2.54
RP-HUHTP40-145	2	ENSG00000197989	SNHG12	small nucleolar RNA host gene 12 [Source:HGNC Symbol;Acc:HGNC:30062]	2.29	2.29
RP-HUHTP40-146	2	ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	-1.17	-1.17
RP-HUHTP40-146	2	ENSG00000119927	GPAM	glycerol-3-phosphate acyltransferase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:24865]	-1.69	-1.69
RP-HUHTP40-147	3	ENSG00000166825	ANPEP	alanyl aminopeptidase, membrane [Source:HGNC Symbol;Acc:HGNC:500]	0.56	0.56
RP-HUHTP40-147	3	ENSG00000151348	EXT2	exostosin glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3513]	0.84	0.84
RP-HUHTP40-147	3	ENSG00000177707	NECTIN3	nectin cell adhesion molecule 3 [Source:HGNC Symbol;Acc:HGNC:17664]	0.65	0.65
RP-HUHTP40-148	5	ENSG00000170275	CRTAP	cartilage associated protein [Source:HGNC Symbol;Acc:HGNC:2379]	-0.51	-0.51
RP-HUHTP40-148	5	ENSG00000138744	NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:HGNC:736]	-0.60	-0.60
RP-HUHTP40-148	5	ENSG00000105852	PON3	paraoxonase 3 [Source:HGNC Symbol;Acc:HGNC:9206]	-0.36	-0.36
RP-HUHTP40-148	5	ENSG00000137491	SLCO2B1	solute carrier organic anion transporter family member 2B1 [Source:HGNC Symbol;Acc:HGNC:10962]	-0.59	-0.59
RP-HUHTP40-148	5	ENSG00000006042	TMEM98	transmembrane protein 98 [Source:HGNC Symbol;Acc:HGNC:24529]	-0.64	-0.64
RP-HUHTP40-149	2	ENSG00000239883	PARGP1	poly(ADP-ribose) glycohydrolase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45008]	1.02	1.02
RP-HUHTP40-149	2	ENSG00000118495	PLAGL1	PLAG1 like zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:9046]	1.53	1.53
RP-HUHTP40-150	2	ENSG00000188153	COL4A5	collagen type IV alpha 5 chain [Source:HGNC Symbol;Acc:HGNC:2207]	0.09	0.09
RP-HUHTP40-150	2	ENSG00000185475	TMEM179B	transmembrane protein 179B [Source:HGNC Symbol;Acc:HGNC:33744]	0.08	0.08
RP-HUHTP40-151	4	ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	1.44	1.44
RP-HUHTP40-151	4	ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	3.12	3.12
RP-HUHTP40-151	4	ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	2.01	2.01
RP-HUHTP40-151	4	ENSG00000112096	SOD2	superoxide dismutase 2 [Source:HGNC Symbol;Acc:HGNC:11180]	2.28	2.28
RP-HUHTP40-152	2	ENSG00000111319	SCNN1A	sodium channel epithelial 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:10599]	-0.92	-0.92
RP-HUHTP40-152	2	ENSG00000167992	VWCE	von Willebrand factor C and EGF domains [Source:HGNC Symbol;Acc:HGNC:26487]	-0.26	-0.26
RP-HUHTP40-153	3	ENSG00000108846	ABCC3	ATP binding cassette subfamily C member 3 [Source:HGNC Symbol;Acc:HGNC:54]	-0.71	-0.71
RP-HUHTP40-153	3	ENSG00000261701	HPR	haptoglobin-related protein [Source:HGNC Symbol;Acc:HGNC:5156]	-1.41	-1.41
RP-HUHTP40-153	3	ENSG00000159899	NPR2	natriuretic peptide receptor 2 [Source:HGNC Symbol;Acc:HGNC:7944]	-0.71	-0.71
RP-HUHTP40-154	4	ENSG00000133454	MYO18B	myosin XVIIIB [Source:HGNC Symbol;Acc:HGNC:18150]	1.32	1.32
RP-HUHTP40-154	4	ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]	2.94	2.94
RP-HUHTP40-154	4	ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	1.61	1.61
RP-HUHTP40-154	4	ENSG00000177082	WDR73	WD repeat domain 73 [Source:HGNC Symbol;Acc:HGNC:25928]	1.53	1.53
RP-HUHTP40-155	4	ENSG00000135454	B4GALNT1	beta-1,4-N-acetyl-galactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4117]	-0.58	-0.58
RP-HUHTP40-155	4	ENSG00000205213	LGR4	leucine rich repeat containing G protein-coupled receptor 4 [Source:HGNC Symbol;Acc:HGNC:13299]	-0.41	-0.41
RP-HUHTP40-155	4	ENSG00000116704	SLC35D1	solute carrier family 35 member D1 [Source:HGNC Symbol;Acc:HGNC:20800]	-0.33	-0.33

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	-Log ₂	-Log ₂
					FC	FC
					CYT	ER
RP-HUHTP40-155	4	ENSG00000131389	SLC6A6	solute carrier family 6 member 6 [Source:HGNC Symbol;Acc:HGNC:11052]	-0.43	-0.43
RP-HUHTP40-156	2	ENSG00000130758	MAP3K10	mitogen-activated protein kinase kinase kinase 10 [Source:HGNC Symbol;Acc:HGNC:6849]	2.76	2.76
RP-HUHTP40-156	2	ENSG00000136514	RTP4	receptor transporter protein 4 [Source:HGNC Symbol;Acc:HGNC:23992]	3.18	3.18
RP-HUHTP40-157	3	ENSG00000100473	COCH	cochlin [Source:HGNC Symbol;Acc:HGNC:2180]	-0.06	-0.06
RP-HUHTP40-157	3	ENSG00000077616	NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2 [Source:HGNC Symbol;Acc:HGNC:14526]	-0.12	-0.12
RP-HUHTP40-157	3	ENSG00000144035	NAT8	N-acetyltransferase 8 (putative) [Source:HGNC Symbol;Acc:HGNC:18069]	-0.78	-0.78
RP-HUHTP40-158	3	ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]	2.96	2.96
RP-HUHTP40-158	3	ENSG00000213185	FAM24B	family with sequence similarity 24 member B [Source:HGNC Symbol;Acc:HGNC:23475]	2.67	2.67
RP-HUHTP40-158	3	ENSG00000131115	ZNF227	zinc finger protein 227 [Source:HGNC Symbol;Acc:HGNC:13020]	2.30	2.30
RP-HUHTP40-159	5	ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]	-0.75	-0.75
RP-HUHTP40-159	5	ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	-0.99	-0.99
RP-HUHTP40-159	5	ENSG00000170099	SERPINA6	serpin family A member 6 [Source:HGNC Symbol;Acc:HGNC:1540]	-0.95	-0.95
RP-HUHTP40-159	5	ENSG00000172594	SMPDL3A	sphingomyelin phosphodiesterase acid like 3A [Source:HGNC Symbol;Acc:HGNC:17389]	-0.35	-0.35
RP-HUHTP40-159	5	ENSG00000139291	TMEM19	transmembrane protein 19 [Source:HGNC Symbol;Acc:HGNC:25605]	-1.23	-1.23
RP-HUHTP40-160	6	ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	3.59	3.59
RP-HUHTP40-160	6	ENSG00000099364	FBXL19	F-box and leucine rich repeat protein 19 [Source:HGNC Symbol;Acc:HGNC:25300]	2.69	2.69
RP-HUHTP40-160	6	ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	3.51	3.51
RP-HUHTP40-160	6	ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	3.44	3.44
RP-HUHTP40-160	6	ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	3.92	3.92
RP-HUHTP40-160	6	ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	3.72	3.72
RP-HUHTP40-161	3	ENSG00000161031	PGLYRP2	peptidoglycan recognition protein 2 [Source:HGNC Symbol;Acc:HGNC:30013]	-1.72	-1.72
RP-HUHTP40-161	3	ENSG00000100564	PIGH	phosphatidylinositol glycan anchor biosynthesis class H [Source:HGNC Symbol;Acc:HGNC:8964]	-0.94	-0.94
RP-HUHTP40-161	3	ENSG00000100321	SYNGR1	synaptogyrin 1 [Source:HGNC Symbol;Acc:HGNC:11498]	-1.31	-1.31
RP-HUHTP40-162	3	ENSG00000070778	PTPN21	protein tyrosine phosphatase, non-receptor type 21 [Source:HGNC Symbol;Acc:HGNC:9651]	1.92	1.92
RP-HUHTP40-162	3	ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	1.94	1.94
RP-HUHTP40-162	3	ENSG00000126215	XRCC3	X-ray repair cross complementing 3 [Source:HGNC Symbol;Acc:HGNC:12830]	2.28	2.28
RP-HUHTP40-163	3	ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	-2.03	-2.03
RP-HUHTP40-163	3	ENSG00000164850	GPER1	G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:4485]	-2.26	-2.26
RP-HUHTP40-163	3	ENSG00000115525	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:10872]	-2.29	-2.29
RP-HUHTP40-164	5	ENSG00000130309	COLGALT1	collagen beta(1-O)galactosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26182]	0.01	0.01
RP-HUHTP40-164	5	ENSG00000173402	DAG1	dystroglycan 1 [Source:HGNC Symbol;Acc:HGNC:2666]	0.17	0.17
RP-HUHTP40-164	5	ENSG00000134824	FADS2	fatty acid desaturase 2 [Source:HGNC Symbol;Acc:HGNC:3575]	-0.10	-0.10
RP-HUHTP40-164	5	ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	-0.06	-0.06

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHTP40-164	5	ENSG00000138759	FRAS1	Fraser extracellular matrix complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:19185]	-0.27	-0.27
RP-HUHTP40-165	4	ENSG00000213918	DNASE1	deoxyribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:2956]	2.43	2.43
RP-HUHTP40-165	4	ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	1.26	1.26
RP-HUHTP40-165	4	ENSG00000102445	RUBCNL	RUN and cysteine rich domain containing beclin 1 interacting protein like [Source:HGNC Symbol;Acc:HGNC:20420]	2.26	2.26
RP-HUHTP40-165	4	ENSG00000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]	2.26	2.26
RP-HUHTP40-166	8	ENSG00000087085	ACHE	acetylcholinesterase (Cartwright blood group) [Source:HGNC Symbol;Acc:HGNC:108]	2.63	2.63
RP-HUHTP40-166	8	ENSG00000129911	KLF16	Kruppel like factor 16 [Source:HGNC Symbol;Acc:HGNC:16857]	1.47	1.47
RP-HUHTP40-166	8	ENSG00000088899	LZTS3	leucine zipper tumor suppressor family member 3 [Source:HGNC Symbol;Acc:HGNC:30139]	2.00	2.00
RP-HUHTP40-166	8	ENSG00000110697	PITPNM1	phosphatidylinositol transfer protein membrane associated 1 [Source:HGNC Symbol;Acc:HGNC:9003]	2.04	2.04
RP-HUHTP40-166	8	ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]	2.19	2.19
RP-HUHTP40-166	8	ENSG00000198853	RUSC2	RUN and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23625]	2.05	2.05
RP-HUHTP40-166	8	ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	2.34	2.34
RP-HUHTP40-166	8	ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]	2.40	2.40
RP-HUHTP40-167	2	ENSG00000130940	CASZ1	castor zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:26002]	1.38	1.38
RP-HUHTP40-167	2	ENSG00000175265	GOLGA8A	golgin A8 family member A [Source:HGNC Symbol;Acc:HGNC:31972]	2.18	2.18
RP-HUHTP40-168	4	ENSG00000039537	C6	complement C6 [Source:HGNC Symbol;Acc:HGNC:1339]	-1.50	-1.50
RP-HUHTP40-168	4	ENSG00000113100	CDH9	cadherin 9 [Source:HGNC Symbol;Acc:HGNC:1768]	-1.33	-1.33
RP-HUHTP40-168	4	ENSG00000250722	SELENOP	seleoprotein P [Source:HGNC Symbol;Acc:HGNC:10751]	-1.05	-1.05
RP-HUHTP40-168	4	ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]	-1.15	-1.15
RP-HUHTP40-169	4	ENSG00000123179	EBPL	EBP like [Source:HGNC Symbol;Acc:HGNC:18061]	-0.02	-0.02
RP-HUHTP40-169	4	ENSG00000148702	HABP2	hyaluronan binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4798]	0.50	0.50
RP-HUHTP40-169	4	ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]	0.23	0.23
RP-HUHTP40-169	4	ENSG00000072042	RDH11	retinol dehydrogenase 11 [Source:HGNC Symbol;Acc:HGNC:17964]	0.01	0.01
RP-HUHTP40-170	3	ENSG00000164291	ARSK	arylsulfatase family member K [Source:HGNC Symbol;Acc:HGNC:25239]	0.25	0.25
RP-HUHTP40-170	3	ENSG00000173852	DPY19L1	dpy-19 like C-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:22205]	0.01	0.01
RP-HUHTP40-170	3	ENSG00000156162	DPY19L4	dpy-19 like 4 [Source:HGNC Symbol;Acc:HGNC:27829]	-0.14	-0.14
RP-HUHTP40-171	4	ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	3.40	3.40
RP-HUHTP40-171	4	ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	4.59	4.59
RP-HUHTP40-171	4	ENSG00000187720	THSD4	thrombospondin type 1 domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25835]	4.04	4.04
RP-HUHTP40-171	4	ENSG00000102870	ZNF629	zinc finger protein 629 [Source:HGNC Symbol;Acc:HGNC:29008]	1.48	1.48
RP-HUHTP40-172	3	ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]	3.44	3.44
RP-HUHTP40-172	3	ENSG00000215041	NEURL4	neuralized E3 ubiquitin protein ligase 4 [Source:HGNC Symbol;Acc:HGNC:34410]	1.93	1.93
RP-HUHTP40-172	3	ENSG00000100241	SBF1	SET binding factor 1 [Source:HGNC Symbol;Acc:HGNC:10542]	1.49	1.49
RP-HUHTP40-173	2	ENSG00000238227	TMEM250	transmembrane protein 250 [Source:HGNC Symbol;Acc:HGNC:31009]	0.54	0.54

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description								<i>Log₂</i>	<i>Log₂</i>	
				tubulin	beta	2B	class	IIb	[Source:HGNC	Sym-	FC	CYT	FC	ER
RP-HUHTP40-173	2	ENSG00000137285	TUBB2B	tubulin	beta	2B	class	IIb	[Source:HGNC	Sym-	1.69	1.69		
RP-HUHTP40-174	4	ENSG00000196743	GM2A	GM2 ganglioside	activator				[Source:HGNC	Sym-	-0.18	-0.18		
RP-HUHTP40-174	4	ENSG00000105976	MET	MET proto-oncogene,	receptor	tyrosine	kinase		[Source:HGNC Symbol;Acc:HGNC:7029]		-0.37	-0.37		
RP-HUHTP40-174	4	ENSG00000163964	PIGX	phosphatidylinositol	glycan anchor	biosynthesis	class X		[Source:HGNC Symbol;Acc:HGNC:26046]		-0.39	-0.39		
RP-HUHTP40-174	4	ENSG00000112394	SLC16A10	solute carrier family	16 member 10	[Source:HGNC Symbol;Acc:HGNC:17027]					-0.86	-0.86		
RP-HUHTP40-175	4	ENSG00000133935	ERG28	ergosterol biosynthesis	28 homolog	[Source:HGNC Symbol;Acc:HGNC:1187]					-0.19	-0.19		
RP-HUHTP40-175	4	ENSG00000139292	LGR5	leucine rich repeat containing G	protein-coupled receptor 5				[Source:HGNC Symbol;Acc:HGNC:4504]		-0.15	-0.15		
RP-HUHTP40-175	4	ENSG00000106688	SLC1A1	solute carrier family 1	member 1	[Source:HGNC Symbol;Acc:HGNC:10939]					0.14	0.14		
RP-HUHTP40-175	4	ENSG00000139209	SLC38A4	solute carrier family 38	member 4	[Source:HGNC Symbol;Acc:HGNC:14679]					-0.24	-0.24		
RP-HUHTP40-176	5	ENSG00000148204	CRB2	crumbs 2, cell polarity complex	component	[Source:HGNC Symbol;Acc:HGNC:18688]					-2.21	-2.21		
RP-HUHTP40-176	5	ENSG00000137404	NRM	nurim	[Source:HGNC Symbol;Acc:HGNC:8003]						-1.41	-1.41		
RP-HUHTP40-176	5	ENSG00000158865	SLC5A11	solute carrier family 5	member 11	[Source:HGNC Symbol;Acc:HGNC:23091]					-1.48	-1.48		
RP-HUHTP40-176	5	ENSG00000157570	TSPAN18	tetraspanin 18	[Source:HGNC Symbol;Acc:HGNC:20660]						-2.07	-2.07		
RP-HUHTP40-176	5	ENSG00000160446	ZDHHC12	zinc finger DHHC-type	containing 12	[Source:HGNC Symbol;Acc:HGNC:19159]					-2.18	-2.18		
RP-HUHTP40-177	2	ENSG00000228218	ATF4P3	activating transcription factor 4	pseudogene 3	[Source:HGNC Symbol;Acc:HGNC:788]					2.61	2.61		
RP-HUHTP40-177	2	ENSG00000199266	SNORA60	small nucleolar RNA, H/ACA box 60	[Source:HGNC Symbol;Acc:HGNC:32654]						3.02	3.02		
RP-HUHTP40-178	4	ENSG00000177669	MBOAT4	membrane bound O-acyltransferase domain	containing 4	[Source:HGNC Symbol;Acc:HGNC:32311]					-0.29	-0.29		
RP-HUHTP40-178	4	ENSG00000226549	SCDP1	stearoyl-CoA desaturase	pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:10572]					-0.21	-0.21		
RP-HUHTP40-178	4	ENSG00000164647	STEAP1	STEAP family	member 1	[Source:HGNC Symbol;Acc:HGNC:11378]					0.04	0.04		
RP-HUHTP40-178	4	ENSG00000135220	UGT2A3	UDP glucuronosyltransferase	family 2 member A3	[Source:HGNC Symbol;Acc:HGNC:28528]					-0.36	-0.36		
RP-HUHTP40-179	7	ENSG00000164949	GEM	GTP binding protein	overexpressed in skeletal muscle	[Source:HGNC Symbol;Acc:HGNC:4234]					3.97	3.97		
RP-HUHTP40-179	7	ENSG00000166173	LARP6	La ribonucleoprotein	domain family member 6	[Source:HGNC Symbol;Acc:HGNC:24012]					3.10	3.10		
RP-HUHTP40-179	7	ENSG00000196588	MRTFA	myocardin related	transcription factor A	[Source:HGNC Symbol;Acc:HGNC:14334]					3.05	3.05		
RP-HUHTP40-179	7	ENSG00000105559	PLEKHA4	pleckstrin	homology domain	containing A4	[Source:HGNC Symbol;Acc:HGNC:14339]				3.90	3.90		
RP-HUHTP40-179	7	ENSG00000136155	SCEL	scilinin	[Source:HGNC Symbol;Acc:HGNC:10573]						2.50	2.50		
RP-HUHTP40-179	7	ENSG00000179886	TIGD5	tigger transposable element	derived 5	[Source:HGNC Symbol;Acc:HGNC:18336]					-0.21	-0.21		
RP-HUHTP40-179	7	ENSG00000197279	ZNF165	zinc finger	protein 165	[Source:HGNC Symbol;Acc:HGNC:12953]					4.15	4.15		
RP-HUHTP40-180	5	ENSG00000224550		NADH dehydrogenase	(ubiquinone) 1 alpha subcomplex, 4,					-0.52	-0.52			
RP-HUHTP40-180	5	ENSG00000185432	METTL7A	9kDa (NDUFA4)	pseudogene									
RP-HUHTP40-180	5	ENSG00000112852	PCDHB2	methyltransferase	like 7A	[Source:HGNC Symbol;Acc:HGNC:24550]					-1.68	-1.68		
RP-HUHTP40-180	5	ENSG00000143653	SCCPDH	protocadherin	beta 2	[Source:HGNC Symbol;Acc:HGNC:8687]					-0.41	-0.41		
RP-HUHTP40-180	5	ENSG00000096092	TMEM14A	saccharopine	dehydrogenase (putative)	[Source:HGNC Symbol;Acc:HGNC:24275]					-0.87	-0.87		
RP-HUHTP40-181	4	ENSG00000134962	KLB	transmembrane	protein 14A	[Source:HGNC Symbol;Acc:HGNC:21076]					-0.77	-0.77		
				klotho beta	[Source:HGNC Symbol;Acc:HGNC:15527]					-0.18	-0.18			

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					<i>Log₂</i> FC	<i>Log₂</i> FC
								CYT	ER	
RP-HUHTP40-181	4	ENSG00000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]					-0.64	-0.64
RP-HUHTP40-181	4	ENSG00000169174	PCSK9	proprotein convertase subtilisin/kexin type 9 [Source:HGNC Symbol;Acc:HGNC:20001]					-0.52	-0.52
RP-HUHTP40-181	4	ENSG00000100234	TIMP3	TIMP metallopeptidase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:11822]					-0.10	-0.10
RP-HUHTP40-182	4	ENSG00000104998	IL27RA	interleukin 27 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:17290]					-0.18	-0.18
RP-HUHTP40-182	4	ENSG00000070018	LRP6	LDL receptor related protein 6 [Source:HGNC Symbol;Acc:HGNC:6698]					-0.18	-0.18
RP-HUHTP40-182	4	ENSG00000149177	PTPRJ	protein tyrosine phosphatase, receptor type J [Source:HGNC Symbol;Acc:HGNC:9673]					-0.26	-0.26
RP-HUHTP40-182	4	ENSG00000176273	SLC35G1	solute carrier family 35 member G1 [Source:HGNC Symbol;Acc:HGNC:26607]					-0.36	-0.36
RP-HUHTP40-183	5	ENSG00000121057	AKAP1	A-kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:367]					-0.68	-0.68
RP-HUHTP40-183	5	ENSG00000169814	BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]					-0.61	-0.61
RP-HUHTP40-183	5	ENSG00000099219	ERMP1	endoplasmic reticulum metallopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:23703]					-0.41	-0.41
RP-HUHTP40-183	5	ENSG00000198162	MAN1A2	mannosidase alpha class 1A member 2 [Source:HGNC Symbol;Acc:HGNC:6822]					-0.62	-0.62
RP-HUHTP40-183	5	ENSG00000198246	SLC29A3	solute carrier family 29 member 3 [Source:HGNC Symbol;Acc:HGNC:23096]					-0.43	-0.43
RP-HUHTP40-184	2	ENSG00000215035	FDPSP5	farnesyl diphosphate synthase pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:3636]					-1.25	-1.25
RP-HUHTP40-184	2	ENSG00000197696	NMB	neuromedin B [Source:HGNC Symbol;Acc:HGNC:7842]					-1.04	-1.04
RP-HUHTP40-185	7	ENSG00000187546	AGMO	alkylglycerol monooxygenase [Source:HGNC Symbol;Acc:HGNC:33784]					0.06	0.06
RP-HUHTP40-185	7	ENSG00000143819	EPHX1	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]					0.31	0.31
RP-HUHTP40-185	7	ENSG00000111261	MANSC1	MANSC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25505]					-0.10	-0.10
RP-HUHTP40-185	7	ENSG00000113205	PCDHB3	protocadherin beta 3 [Source:HGNC Symbol;Acc:HGNC:8688]					-0.05	-0.05
RP-HUHTP40-185	7	ENSG00000105854	PON2	paraoxonase 2 [Source:HGNC Symbol;Acc:HGNC:9205]					-0.08	-0.08
RP-HUHTP40-185	7	ENSG00000163581	SLC2A2	solute carrier family 2 member 2 [Source:HGNC Symbol;Acc:HGNC:11006]					0.32	0.32
RP-HUHTP40-185	7	ENSG00000104549	SQLE	squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:11279]					0.29	0.29
RP-HUHTP40-186	3	ENSG00000137496	IL18BP	interleukin 18 binding protein [Source:HGNC Symbol;Acc:HGNC:5987]					1.27	1.27
RP-HUHTP40-186	3	ENSG00000242086	MUC20-OT1	MUC20 overlapping transcript [Source:HGNC Symbol;Acc:HGNC:53807]					0.53	0.53
RP-HUHTP40-186	3	ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]					1.08	1.08
RP-HUHTP40-187	2	ENSG00000223959	AFG3L1P	AFG3 like matrix AAA peptidase subunit 1, pseudogene [Source:HGNC Symbol;Acc:HGNC:314]					0.43	0.43
RP-HUHTP40-187	2	ENSG00000274211	SOCS7	suppressor of cytokine signaling 7 [Source:HGNC Symbol;Acc:HGNC:29846]					0.34	0.34
RP-HUHTP40-188	3	ENSG00000267796	LIN37	lin-37 DREAM MuvB core complex component [Source:HGNC Symbol;Acc:HGNC:33234]					1.33	1.33
RP-HUHTP40-188	3	ENSG00000006432	MAP3K9	mitogen-activated protein kinase kinase kinase 9 [Source:HGNC Symbol;Acc:HGNC:6861]					1.15	1.15
RP-HUHTP40-188	3	ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]					1.60	1.60
RP-HUHTP40-189	2	ENSG00000117151	CTBS	chitobiase [Source:HGNC Symbol;Acc:HGNC:2496]					-0.79	-0.79
RP-HUHTP40-189	2	ENSG00000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]					-1.87	-1.87
RP-HUHTP40-190	3	ENSG00000179832	MROH1	maestro heat like repeat family member 1 [Source:HGNC Symbol;Acc:HGNC:26958]					2.18	2.18
RP-HUHTP40-190	3	ENSG00000185347	TEDC1	tubulin epsilon and delta complex 1 [Source:HGNC Symbol;Acc:HGNC:20127]					1.76	1.76
RP-HUHTP40-190	3	ENSG00000166166	TRMT61A	tRNA methyltransferase 61A [Source:HGNC Symbol;Acc:HGNC:23790]					2.18	2.18

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>		
					FC	CYT	FC
							ER
RP-HUHTP40-191	8	ENSG00000198837	DENND4B	DENN domain containing 4B [Source:HGNC Symbol;Acc:HGNC:29044]	1.16		1.16
RP-HUHTP40-191	8	ENSG00000181016	LSMEM1	leucine rich single-pass membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:22036]	2.06		2.06
RP-HUHTP40-191	8	ENSG00000071655	MBD3	methyl-CpG binding domain protein 3 [Source:HGNC Symbol;Acc:HGNC:6918]	1.25		1.25
RP-HUHTP40-191	8	ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	2.52		2.52
RP-HUHTP40-191	8	ENSG00000137877	SPTBN5	spectrin beta, non-erythrocytic 5 [Source:HGNC Symbol;Acc:HGNC:15680]	1.62		1.62
RP-HUHTP40-191	8	ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]	1.61		1.61
RP-HUHTP40-191	8	ENSG00000075399	VPS9D1	VPS9 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13526]	1.33		1.33
RP-HUHTP40-191	8	ENSG00000113645	WWC1	WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29435]	1.73		1.73
RP-HUHTP40-192	4	ENSG00000111684	LPCAT3	lysophosphatidylcholine acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:30244]	0.51		0.51
RP-HUHTP40-192	4	ENSG00000239305	RNF103	ring finger protein 103 [Source:HGNC Symbol;Acc:HGNC:12859]	-0.05		-0.05
RP-HUHTP40-192	4	ENSG00000139974	SLC38A6	solute carrier family 38 member 6 [Source:HGNC Symbol;Acc:HGNC:19863]	0.26		0.26
RP-HUHTP40-192	4	ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]	0.39		0.39
RP-HUHTP40-193	4	ENSG00000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]	0.37		0.37
RP-HUHTP40-193	4	ENSG00000162391	FAM151A	family with sequence similarity 151 member A [Source:HGNC Symbol;Acc:HGNC:25032]	0.40		0.40
RP-HUHTP40-193	4	ENSG00000115084	SLC35F5	solute carrier family 35 member F5 [Source:HGNC Symbol;Acc:HGNC:23617]	-0.05		-0.05
RP-HUHTP40-193	4	ENSG00000092068	SLC7A8	solute carrier family 7 member 8 [Source:HGNC Symbol;Acc:HGNC:11066]	-0.03		-0.03
RP-HUHTP40-194	5	ENSG00000248713	C4orf54	chromosome 4 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:27741]	3.38		3.38
RP-HUHTP40-194	5	ENSG00000135842	FAM129A	family with sequence similarity 129 member A [Source:HGNC Symbol;Acc:HGNC:16784]	2.73		2.73
RP-HUHTP40-194	5	ENSG00000100441	KHYN	KH and NYN domain containing [Source:HGNC Symbol;Acc:HGNC:20166]	1.30		1.30
RP-HUHTP40-194	5	ENSG00000130487	KLHDC7B	kelch domain containing 7B [Source:HGNC Symbol;Acc:HGNC:25145]	3.55		3.55
RP-HUHTP40-194	5	ENSG00000186376	ZNF75D	zinc finger protein 75D [Source:HGNC Symbol;Acc:HGNC:13145]	1.18		1.18
RP-HUHTP40-195	2	ENSG00000111846	GCNT2	glucosaminyl (N-acetyl) transferase 2 (I blood group) [Source:HGNC Symbol;Acc:HGNC:4204]	-0.04		-0.04
RP-HUHTP40-195	2	ENSG00000082781	ITGB5	integrin subunit beta 5 [Source:HGNC Symbol;Acc:HGNC:6160]	-0.07		-0.07
RP-HUHTP40-196	4	ENSG00000267478		nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2) pseudogene	1.88		1.88
RP-HUHTP40-196	4	ENSG00000181026	AEN	apoptosis enhancing nuclease [Source:HGNC Symbol;Acc:HGNC:25722]	1.74		1.74
RP-HUHTP40-196	4	ENSG00000146112	PPP1R18	protein phosphatase 1 regulatory subunit 18 [Source:HGNC Symbol;Acc:HGNC:29413]	1.99		1.99
RP-HUHTP40-196	4	ENSG00000135631	RAB11FIP5	RAB11 family interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:24845]	1.44		1.44
RP-HUHTP40-197	3	ENSG00000197977	ELOVL2	ELOVL fatty acid elongase 2 [Source:HGNC Symbol;Acc:HGNC:14416]	-0.74		-0.74
RP-HUHTP40-197	3	ENSG00000151834	GABRA2	gamma-aminobutyric acid type A receptor alpha2 subunit [Source:HGNC Symbol;Acc:HGNC:4076]	-0.38		-0.38
RP-HUHTP40-197	3	ENSG00000198743	SLC5A3	solute carrier family 5 member 3 [Source:HGNC Symbol;Acc:HGNC:11038]	-0.46		-0.46
RP-HUHTP40-198	4	ENSG00000213569		general transcription factor IIIC, polypeptide 6, alpha 35kDa (GTF3C6) pseudogene	-2.03		-2.03

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHTP40-198	4	ENSG00000243944			-1.05	-1.05
RP-HUHTP40-198	4	ENSG00000188611	ASAH2	N-acylsphingosine amidohydrolase 2 [Source:HGNC Symbol;Acc:HGNC:18860]	-2.40	-2.40
RP-HUHTP40-198	4	ENSG00000162694	EXTL2	exostosin like glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3516]	-1.73	-1.73
RP-HUHTP40-199	3	ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	3.24	3.24
RP-HUHTP40-199	3	ENSG00000089127	OAS1	2'-5'-oligoadenylate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:8086]	2.60	2.60
RP-HUHTP40-199	3	ENSG00000092607	TBX15	T-box 15 [Source:HGNC Symbol;Acc:HGNC:11594]	3.16	3.16
RP-HUHTP40-200	4	ENSG00000281706		long intergenic non-protein coding RNA 1012 [Source:NCBI gene;Acc:100507173]	3.01	3.01
RP-HUHTP40-200	4	ENSG00000008710	PKD1	polycystin 1, transient receptor potential channel interacting [Source:HGNC Symbol;Acc:HGNC:9008]	2.32	2.32
RP-HUHTP40-200	4	ENSG00000128228	SDF2L1	stromal cell derived factor 2 like 1 [Source:HGNC Symbol;Acc:HGNC:10676]	2.02	2.02
RP-HUHTP40-200	4	ENSG00000207031	SNORD59A	small nucleolar RNA, C/D box 59A [Source:HGNC Symbol;Acc:HGNC:10210]	1.61	1.61
RP-HUHTP40-201	5	ENSG00000103326	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182]	1.63	1.63
RP-HUHTP40-201	5	ENSG00000099814	CEP170B	centrosomal protein 170B [Source:HGNC Symbol;Acc:HGNC:20362]	1.91	1.91
RP-HUHTP40-201	5	ENSG00000079432	CIC	capicua transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:14214]	2.35	2.35
RP-HUHTP40-201	5	ENSG00000070404	FSTL3	folistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	2.58	2.58
RP-HUHTP40-201	5	ENSG00000205903	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:13843]	2.96	2.96
RP-HUHTP40-202	3	ENSG00000108242	CYP2C18	cytochrome P450 family 2 subfamily C member 18 [Source:HGNC Symbol;Acc:HGNC:2620]	-2.14	-2.14
RP-HUHTP40-202	3	ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	-2.31	-2.31
RP-HUHTP40-202	3	ENSG00000162430	SELENON	seleprotein N [Source:HGNC Symbol;Acc:HGNC:15999]	-1.97	-1.97
RP-HUHTP40-203	8	ENSG00000230733		novel transcript	1.45	1.45
RP-HUHTP40-203	8	ENSG00000159753	CARMIL2	capping protein regulator and myosin 1 linker 2 [Source:HGNC Symbol;Acc:HGNC:27089]	1.25	1.25
RP-HUHTP40-203	8	ENSG00000135924	DNAJB2	Dnaj heat shock protein family (Hsp40) member B2 [Source:HGNC Symbol;Acc:HGNC:5228]	1.02	1.02
RP-HUHTP40-203	8	ENSG00000130299	GTPBP3	GTP binding protein 3, mitochondrial [Source:HGNC Symbol;Acc:HGNC:14880]	1.46	1.46
RP-HUHTP40-203	8	ENSG00000100139	MICALL1	MICAL like 1 [Source:HGNC Symbol;Acc:HGNC:29804]	0.83	0.83
RP-HUHTP40-203	8	ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily I member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	1.91	1.91
RP-HUHTP40-203	8	ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	2.49	2.49
RP-HUHTP40-203	8	ENSG00000185730	ZNF696	zinc finger protein 696 [Source:HGNC Symbol;Acc:HGNC:25872]	1.38	1.38
RP-HUHTP40-204	6	ENSG00000117528	ABCD3	ATP binding cassette subfamily D member 3 [Source:HGNC Symbol;Acc:HGNC:67]	-1.52	-1.52
RP-HUHTP40-204	6	ENSG00000251568	ALG3P1	ALG3, alpha-1,3- mannosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45159]	-1.17	-1.17
RP-HUHTP40-204	6	ENSG00000080910	CFHR2	complement factor H related 2 [Source:HGNC Symbol;Acc:HGNC:4890]	-1.48	-1.48
RP-HUHTP40-204	6	ENSG00000113594	LIFR	LIF receptor alpha [Source:HGNC Symbol;Acc:HGNC:6597]	-1.14	-1.14
RP-HUHTP40-204	6	ENSG00000134986	NREP	neuronal regeneration related protein [Source:HGNC Symbol;Acc:HGNC:16834]	-1.35	-1.35
RP-HUHTP40-204	6	ENSG00000253598	SLC10A5	solute carrier family 10 member 5 [Source:HGNC Symbol;Acc:HGNC:22981]	-1.83	-1.83
RP-HUHTP40-205	3	ENSG00000106526	ACTR3C	ARP3 actin related protein 3 homolog C [Source:HGNC Symbol;Acc:HGNC:37282]	-2.21	-2.21
RP-HUHTP40-205	3	ENSG00000138109	CYP2C9	cytochrome P450 family 2 subfamily C member 9 [Source:HGNC Symbol;Acc:HGNC:2623]	-1.92	-1.92
RP-HUHTP40-205	3	ENSG00000108950	FAM20A	FAM20A, golgi associated secretory pathway pseudokinase [Source:HGNC Symbol;Acc:HGNC:23015]	-2.13	-2.13

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHTP40-206	3	ENSG00000116199	FAM20B	FAM20B, glycosaminoglycan xylosylkinase [Source:HGNC Symbol;Acc:HGNC:23017]	-0.80	-0.80
RP-HUHTP40-206	3	ENSG00000147262	GPR119	G protein-coupled receptor 119 [Source:HGNC Symbol;Acc:HGNC:19060]	-1.58	-1.58
RP-HUHTP40-206	3	ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]	-0.97	-0.97
RP-HUHTP40-207	8	ENSG00000197142	ACSL5	acyl-CoA synthetase long chain family member 5 [Source:HGNC Symbol;Acc:HGNC:16526]	0.30	0.30
RP-HUHTP40-207	8	ENSG00000114948	ADAM23	ADAM metallopeptidase domain 23 [Source:HGNC Symbol;Acc:HGNC:202]	-0.16	-0.16
RP-HUHTP40-207	8	ENSG00000121005	CRISPLD1	cysteine rich secretory protein LCCL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18206]	0.46	0.46
RP-HUHTP40-207	8	ENSG00000140092	FBLN5	fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]	0.00	0.00
RP-HUHTP40-207	8	ENSG00000145882	PCYOX1L	prenylcysteine oxidase 1 like [Source:HGNC Symbol;Acc:HGNC:28477]	0.04	0.04
RP-HUHTP40-207	8	ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	0.36	0.36
RP-HUHTP40-207	8	ENSG00000143554	SLC27A3	solute carrier family 27 member 3 [Source:HGNC Symbol;Acc:HGNC:10997]	-0.08	-0.08
RP-HUHTP40-207	8	ENSG00000204852	TCTN1	tectonic family member 1 [Source:HGNC Symbol;Acc:HGNC:26113]	0.18	0.18
RP-HUHTP40-208	3	ENSG00000151233	GXYLT1	glucoside xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:27482]	-0.18	-0.18
RP-HUHTP40-208	3	ENSG00000206527	HACD2	3-hydroxyacyl-CoA dehydratase 2 [Source:HGNC Symbol;Acc:HGNC:9640]	-0.32	-0.32
RP-HUHTP40-208	3	ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	-0.59	-0.59
RP-HUHTP40-209	8	ENSG00000135503	ACVR1B	activin A receptor type 1B [Source:HGNC Symbol;Acc:HGNC:172]	-1.15	-1.15
RP-HUHTP40-209	8	ENSG00000178772	CPN2	carboxypeptidase N subunit 2 [Source:HGNC Symbol;Acc:HGNC:2313]	-1.18	-1.18
RP-HUHTP40-209	8	ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	-2.19	-2.19
RP-HUHTP40-209	8	ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]	-1.95	-1.95
RP-HUHTP40-209	8	ENSG00000115255	REEP6	receptor accessory protein 6 [Source:HGNC Symbol;Acc:HGNC:30078]	-0.88	-0.88
RP-HUHTP40-209	8	ENSG00000143858	SYT2	synaptotagmin 2 [Source:HGNC Symbol;Acc:HGNC:11510]	-1.51	-1.51
RP-HUHTP40-209	8	ENSG00000171227	TMEM37	transmembrane protein 37 [Source:HGNC Symbol;Acc:HGNC:18216]	-1.06	-1.06
RP-HUHTP40-209	8	ENSG00000180776	ZDHHC20	zinc finger DHHC-type containing 20 [Source:HGNC Symbol;Acc:HGNC:20749]	-0.85	-0.85
RP-HUHTP40-210	2	ENSG00000180758	GPR157	G protein-coupled receptor 157 [Source:HGNC Symbol;Acc:HGNC:23687]	-2.60	-2.60
RP-HUHTP40-210	2	ENSG00000154997	SEPT14	septin 14 [Source:HGNC Symbol;Acc:HGNC:33280]	-2.96	-2.96
RP-HUHTP40-211	2	ENSG00000119185	ITGB1BP1	integrin subunit beta 1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:23927]	-2.07	-2.07
RP-HUHTP40-211	2	ENSG00000165197	VEGFD	vascular endothelial growth factor D [Source:HGNC Symbol;Acc:HGNC:3708]	-1.38	-1.38
RP-HUHTP40-212	3	ENSG00000223658	C1GALT1C1L	C1GALT1 specific chaperone 1 like [Source:HGNC Symbol;Acc:HGNC:51617]	-1.64	-1.64
RP-HUHTP40-212	3	ENSG00000135218	CD36	CD36 molecule [Source:HGNC Symbol;Acc:HGNC:1663]	-1.36	-1.36
RP-HUHTP40-212	3	ENSG00000171234	UGT2B7	UDP glucuronosyltransferase family 2 member B7 [Source:HGNC Symbol;Acc:HGNC:12554]	-1.56	-1.56
RP-HUHTP40-213	10	ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]	-2.02	-2.02
RP-HUHTP40-213	10	ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]	-1.86	-1.86
RP-HUHTP40-213	10	ENSG00000137463	MGARP	mitochondria localized glutamic acid rich protein [Source:HGNC Symbol;Acc:HGNC:29969]	-2.83	-2.83
RP-HUHTP40-213	10	ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	-2.54	-2.54
RP-HUHTP40-213	10	ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]	-1.92	-1.92

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2		
					FC	CYT	ER
RP-HUHTP40-213	10	ENSG00000148123	PLPPR1	phospholipid phosphatase related 1 [Source:HGNC Symbol;Acc:HGNC:25993]	-3.72	-3.72	
RP-HUHTP40-213	10	ENSG00000170989	S1PR1	sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:HGNC:3165]	-2.53	-2.53	
RP-HUHTP40-213	10	ENSG00000092421	SEMA6A	semaphorin 6A [Source:HGNC Symbol;Acc:HGNC:10738]	-2.47	-2.47	
RP-HUHTP40-213	10	ENSG00000130876	SLC7A10	solute carrier family 7 member 10 [Source:HGNC Symbol;Acc:HGNC:11058]	-2.72	-2.72	
RP-HUHTP40-213	10	ENSG00000158457	TSPAN33	tetraspanin 33 [Source:HGNC Symbol;Acc:HGNC:28743]	-2.20	-2.20	
RP-HUHTP40-214	6	ENSG00000234327			-0.83	-0.83	
RP-HUHTP40-214	6	ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]	-1.10	-1.10	
RP-HUHTP40-214	6	ENSG00000135678	CPM	carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311]	-0.32	-0.32	
RP-HUHTP40-214	6	ENSG00000079150	FKBP7	FK506 binding protein 7 [Source:HGNC Symbol;Acc:HGNC:3723]	0.14	0.14	
RP-HUHTP40-214	6	ENSG00000150893	FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:25396]	-0.59	-0.59	
RP-HUHTP40-214	6	ENSG00000186480	INSIG1	insulin induced gene 1 [Source:HGNC Symbol;Acc:HGNC:6083]	-0.80	-0.80	
RP-HUHTP40-215	6	ENSG00000139055	ERP27	endoplasmic reticulum protein 27 [Source:HGNC Symbol;Acc:HGNC:26495]	0.77	0.77	
RP-HUHTP40-215	6	ENSG00000100665	SERPINA4	serpin family A member 4 [Source:HGNC Symbol;Acc:HGNC:8948]	-0.27	-0.27	
RP-HUHTP40-215	6	ENSG00000117601	SERPINC1	serpin family C member 1 [Source:HGNC Symbol;Acc:HGNC:775]	0.41	0.41	
RP-HUHTP40-215	6	ENSG00000076351	SLC46A1	solute carrier family 46 member 1 [Source:HGNC Symbol;Acc:HGNC:30521]	-0.49	-0.49	
RP-HUHTP40-215	6	ENSG00000149809	TM7SF2	transmembrane 7 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11863]	-0.16	-0.16	
RP-HUHTP40-215	6	ENSG00000087301	TXNDC16	thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:HGNC:19965]	-0.08	-0.08	
RP-HUHTP40-216	5	ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	2.12	2.12	
RP-HUHTP40-216	5	ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	2.15	2.15	
RP-HUHTP40-216	5	ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	2.07	2.07	
RP-HUHTP40-216	5	ENSG00000214279	SCART1	scavenger receptor family member expressed on T cells 1 [Source:HGNC Symbol;Acc:HGNC:32411]	1.99	1.99	
RP-HUHTP40-216	5	ENSG00000181638	ZFP41	ZFP41 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:26786]	1.27	1.27	
RP-HUHTP40-217	3	ENSG00000151726	ACSL1	acyl-CoA synthetase long chain family member 1 [Source:HGNC Symbol;Acc:HGNC:3569]	0.64	0.64	
RP-HUHTP40-217	3	ENSG00000107521	HPS1	HPS1, biogenesis of lysosomal organelles complex 3 subunit 1 [Source:HGNC Symbol;Acc:HGNC:5163]	0.59	0.59	
RP-HUHTP40-217	3	ENSG00000175115	PACS1	phosphofuranic acidic cluster sorting protein 1 [Source:HGNC Symbol;Acc:HGNC:30032]	0.72	0.72	
RP-HUHTP40-218	7	ENSG00000146826	C7orf43	chromosome 7 open reading frame 43 [Source:HGNC Symbol;Acc:HGNC:25604]	1.72	1.72	
RP-HUHTP40-218	7	ENSG00000249115	HAUS5	HAUS augmin like complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:29130]	1.51	1.51	
RP-HUHTP40-218	7	ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	2.39	2.39	
RP-HUHTP40-218	7	ENSG00000076067	RBMS2	RNA binding motif single stranded interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:9909]	0.85	0.85	
RP-HUHTP40-218	7	ENSG00000178297	TMPRSS9	transmembrane serine protease 9 [Source:HGNC Symbol;Acc:HGNC:30079]	2.09	2.09	
RP-HUHTP40-218	7	ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]	2.63	2.63	
RP-HUHTP40-218	7	ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	2.44	2.44	
RP-HUHTP40-219	3	ENSG00000134326	CMPK2	cytidine/uridine monophosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:27015]	3.06	3.06	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description							Log ₂ FC	Log ₂ FC
											CYT	ER
RP-HUHTP40-219	3	ENSG00000181218	HIST3H2A	histone cluster 3 bol;Acc:HGNC:20507]	cluster 3	H2A	[Source:HGNC	Sym-	2.33	2.33		
RP-HUHTP40-219	3	ENSG00000243406	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene	protein S31	pseudogene	5	2.43	2.43			
RP-HUHTP40-220	7	ENSG00000152990	ADGRA3	adhesion G protein-coupled receptor A3	[Source:HGNC Sym-			-0.64	-0.64			
RP-HUHTP40-220	7	ENSG00000159346	ADIPOR1	adiponectin receptor 1	[Source:HGNC	Sym-	-1.23	-1.23				
RP-HUHTP40-220	7	ENSG00000138798	EGF	epidermal growth factor	[Source:HGNC	Sym-	-0.54	-0.54				
RP-HUHTP40-220	7	ENSG00000065361	ERBB3	erb-b2 receptor tyrosine kinase 3	[Source:HGNC	Sym-	-0.72	-0.72				
RP-HUHTP40-220	7	ENSG00000144320	LNPK	lunapark, ER junction formation factor	[Source:HGNC Sym-		-0.49	-0.49				
RP-HUHTP40-220	7	ENSG00000174358	SLC6A19	solute carrier family 6 member 19	[Source:HGNC	Sym-	-0.81	-0.81				
RP-HUHTP40-220	7	ENSG00000180694	TMEM64	transmembrane protein 64	[Source:HGNC	Sym-	-1.36	-1.36				
RP-HUHTP40-221	4	ENSG00000133106	EPSTI1	epithelial stromal interaction 1	[Source:HGNC	Sym-	4.38	4.38				
RP-HUHTP40-221	4	ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5	[Source:HGNC Symbol;Acc:HGNC:13328]		1.99	1.99				
RP-HUHTP40-221	4	ENSG00000131470	PSMC3IP	PSMC3 interacting protein	[Source:HGNC	Sym-	1.75	1.75				
RP-HUHTP40-221	4	ENSG00000135604	STX11	syntaxin 11	[Source:HGNC Symbol;Acc:HGNC:11429]		2.90	2.90				
RP-HUHTP40-222	4	ENSG00000172817	CYP7B1	cytochrome P450 family 7 subfamily B member 1	[Source:HGNC Symbol;Acc:HGNC:2652]		-1.04	-1.04				
RP-HUHTP40-222	4	ENSG00000102934	PLLP	plasmolipin	[Source:HGNC Symbol;Acc:HGNC:18553]		-2.06	-2.06				
RP-HUHTP40-222	4	ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2	[Source:HGNC	Sym-	-2.78	-2.78				
RP-HUHTP40-222	4	ENSG00000088386	SLC15A1	solute carrier family 15 member 1	[Source:HGNC	Sym-	-0.81	-0.81				
RP-HUHTP40-223	9	ENSG00000073734	ABCB11	ATP binding cassette subfamily B member 11	[Source:HGNC Symbol;Acc:HGNC:42]		-1.46	-1.46				
RP-HUHTP40-223	9	ENSG00000149547	EI24	EI24, autophagy associated transmembrane protein	[Source:HGNC Symbol;Acc:HGNC:13276]		-1.13	-1.13				
RP-HUHTP40-223	9	ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5	[Source:HGNC Symbol;Acc:HGNC:3367]		-0.79	-0.79				
RP-HUHTP40-223	9	ENSG00000197006	METTL9	methyltransferase like 9	[Source:HGNC	Sym-	-1.20	-1.20				
RP-HUHTP40-223	9	ENSG00000110400	NECTIN1	nectin cell adhesion molecule 1	[Source:HGNC	Sym-	-0.93	-0.93				
RP-HUHTP40-223	9	ENSG00000113569	NUP155	nucleoporin 155	[Source:HGNC Symbol;Acc:HGNC:8063]		-0.77	-0.77				
RP-HUHTP40-223	9	ENSG00000167355	OR51B5	olfactory receptor family 51 subfamily B member 5	[Source:HGNC Symbol;Acc:HGNC:19599]		-1.46	-1.46				
RP-HUHTP40-223	9	ENSG00000095539	SEMA4G	semaphorin 4G	[Source:HGNC Symbol;Acc:HGNC:10735]		-1.40	-1.40				
RP-HUHTP40-223	9	ENSG00000070214	SLC44A1	solute carrier family 44 member 1	[Source:HGNC	Sym-	-0.89	-0.89				
RP-HUHTP40-224	3	ENSG00000058668	ATP2B4	ATPase plasma membrane Ca2+ transporting 4	[Source:HGNC Symbol;Acc:HGNC:817]		-0.63	-0.63				
RP-HUHTP40-224	3	ENSG00000126218	F10	coagulation factor X	[Source:HGNC	Sym-	0.64	0.64				
RP-HUHTP40-224	3	ENSG00000011105	TSPAN9	tetraspanin 9	[Source:HGNC Symbol;Acc:HGNC:21640]		0.04	0.04				
RP-HUHTP40-225	3	ENSG00000145911	N4BP3	NEDD4 binding protein 3	[Source:HGNC	Sym-	1.72	1.72				
RP-HUHTP40-225	3	ENSG00000140406	TLNRD1	talin rod domain containing 1	[Source:HGNC	Sym-	1.28	1.28				
RP-HUHTP40-225	3	ENSG00000198393	ZNF26	zinc finger protein 26	[Source:HGNC	Sym-	1.39	1.39				
RP-HUHTP40-226	6	ENSG00000114771	AADAC	arylacetamide deacetylase	[Source:HGNC	Sym-	0.02	0.02				
				bol;Acc:HGNC:17]								

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					<i>Log₂ FC</i>	<i>Log₂ CYT</i>	<i>Log₂ ER</i>
				alpha	2-HS	glycoprotein	[Source:HGNC	Sym-			
RP-HUHTP40-226	6	ENSG00000145192	AHSG	alpha	2-HS	glycoprotein	[Source:HGNC	Sym-	0.40	0.40	
RP-HUHTP40-226	6	ENSG00000157131	C8A	complement	C8	alpha	chain	[Source:HGNC	Sym-	0.62	0.62
RP-HUHTP40-226	6	ENSG00000117335	CD46	CD46	molecule	[Source:HGNC	Symbol;Acc:HGNC:6953]		0.29	0.29	
RP-HUHTP40-226	6	ENSG00000205403	CFI	complement	factor I	[Source:HGNC	Symbol;Acc:HGNC:5394]		0.60	0.60	
RP-HUHTP40-226	6	ENSG00000145217	SLC26A1	solute	carrier	family	26	member	1	[Source:HGNC	Sym-
RP-HUHTP40-227	3	ENSG00000105697	HAMP	hepcidin	antimicrobial	peptide	[Source:HGNC	Sym-	4.32	4.32	
RP-HUHTP40-227	3	ENSG00000133328	HRASLS2	HRAS	like	suppressor	2	[Source:HGNC	Sym-	3.39	3.39
RP-HUHTP40-227	3	ENSG00000132530	XAF1	XIAP	associated	factor	1	[Source:HGNC	Sym-	2.63	2.63
RP-HUHTP40-228	3	ENSG00000122642	FKBP9	FK506	binding	protein	9	[Source:HGNC	Sym-	0.25	0.25
RP-HUHTP40-228	3	ENSG00000129636	ITFG1	integrin	alpha	FG-GAP	repeat	containing	1	[Source:HGNC	0.06
RP-HUHTP40-228	3	ENSG00000172469	MANEA	mannosidase	endo-alpha	[Source:HGNC	Sym-	0.18	0.18		
RP-HUHTP40-229	6	ENSG00000167995	BEST1	bestrophin	1	[Source:HGNC	Symbol;Acc:HGNC:12703]		4.96	4.96	
RP-HUHTP40-229	6	ENSG00000186162	CIDECP	cell	death-inducing	DFFA-like	effector	c	pseudogene	2.34	2.34
RP-HUHTP40-229	6	ENSG00000078081	LAMP3	lysosomal	associated	membrane	protein	3	[Source:HGNC	3.93	3.93
RP-HUHTP40-229	6	ENSG00000177595	PIDD1	p53-induced	death	domain	protein	1	[Source:HGNC	Symbol;Acc:HGNC:14582]	3.33
RP-HUHTP40-229	6	ENSG00000198832	SELENOM	seleノnprotein	M	[Source:HGNC	Symbol;Acc:HGNC:30397]		2.69	2.69	
RP-HUHTP40-229	6	ENSG00000140548	ZNF710	zinc	finger	protein	710	[Source:HGNC	Sym-	2.28	2.28
RP-HUHTP40-230	6	ENSG00000172955	ADH6	alcohol	dehydrogenase	6	(class	V)	[Source:HGNC	Sym-	-2.39
RP-HUHTP40-230	6	ENSG00000104267	CA2	carbonic	anhydrase	2	[Source:HGNC	Sym-	-2.10	-2.10	
RP-HUHTP40-230	6	ENSG00000170571	EMB	embigin	[Source:HGNC	Symbol;Acc:HGNC:30465]			-2.02	-2.02	
RP-HUHTP40-230	6	ENSG00000168509	HJV	hemojuvelin	BMP	co-receptor	[Source:HGNC	Sym-	-2.10	-2.10	
RP-HUHTP40-230	6	ENSG00000067704	IARS2	isoleucyl-tRNA	synthetase	2,	mitochondrial	[Source:HGNC	-0.93	-0.93	
RP-HUHTP40-230	6	ENSG00000101417	PXMP4	peroxisomal	membrane	protein	4	[Source:HGNC	Sym-	-1.66	-1.66
RP-HUHTP40-231	6	ENSG00000151388	ADAMTS12	ADAM	metalloproteinase	with	thrombospondin	type	1	motif	-0.71
RP-HUHTP40-231	6	ENSG00000111666	CHPT1	12	[Source:HGNC	Symbol;Acc:HGNC:14605]			-0.71	-0.71	
RP-HUHTP40-231	6	ENSG00000170271	FAXDC2	choline	phosphotransferase	1	[Source:HGNC	Sym-	-0.61	-0.61	
RP-HUHTP40-231	6	ENSG00000186205	MARC1	fatty	acid	hydroxylase	domain	containing	2	[Source:HGNC	-1.03
RP-HUHTP40-231	6	ENSG00000087111	PIGS	Symbol;Acc:HGNC:1334]					-1.03	-1.03	
RP-HUHTP40-231	6	ENSG00000146433	TMEM181	mitochondrial	amidoxime	reducing	component	1	-0.91	-0.91	
RP-HUHTP40-232	3	ENSG00000168096	ANKS3	[Source:HGNC	Symbol;Acc:HGNC:26189]				-0.63	-0.63	
RP-HUHTP40-232	3	ENSG00000147799	ARHGAP39	phosphatidylinositol	glycan	anchor	biosynthesis	class	S	-0.63	-0.63
RP-HUHTP40-232	3	ENSG00000154803	FLCN	[Source:HGNC	Symbol;Acc:HGNC:14937]				-0.53	-0.53	
RP-HUHTP40-232	3	ENSG00000112486	CCR6	transmembrane	protein	181	[Source:HGNC	Sym-	-0.53	-0.53	
RP-HUHTP40-233	4	ENSG00000234964	FABP5P7	ankyrin	repeat	and	sterile	alpha	motif	domain	containing
RP-HUHTP40-233	4	ENSG00000147799	ARHGAP39	3	[Source:HGNC	Symbol;Acc:HGNC:29422]			0.49	0.49	
RP-HUHTP40-233	3	ENSG00000154803	FLCN	Rho	GTPase	activating	protein	39	[Source:HGNC	1.33	1.33
RP-HUHTP40-233	4	ENSG00000112486	CCR6	folliculin	[Source:HGNC	Symbol;Acc:HGNC:27310]			-0.04	-0.04	
RP-HUHTP40-233	4	ENSG00000234964	FABP5P7	C-C	motif	chemokine	receptor	6	[Source:HGNC	-2.41	-2.41
RP-HUHTP40-233	4	ENSG00000234964	FABP5P7	fatty	acid	binding	protein	5	pseudogene	-1.87	-1.87
RP-HUHTP40-233	4	ENSG00000234964	FABP5P7	Symbol;Acc:HGNC:31070]							

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					<i>Log₂ FC</i>	<i>Log₂ CYT</i>	<i>Log₂ ER</i>
				steroid bol;Acc:HGNC:25812]	5 alpha-reductase bol;Acc:HGNC:27254]	transmembrane protein 30B [Source:HGNC Symbol;Acc:HGNC:23157]	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:24627]	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23111]			
RP-HUHTP40-233	4	ENSG00000128039	SRD5A3	steroid bol;Acc:HGNC:25812]	5 alpha-reductase bol;Acc:HGNC:27254]	transmembrane protein 30B [Source:HGNC Symbol;Acc:HGNC:23157]	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:24627]	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23111]	-1.92	-1.92	-1.92
RP-HUHTP40-233	4	ENSG00000182107	TMEM30B	transmembrane protein 30B [Source:HGNC Symbol;Acc:HGNC:23157]	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:24627]	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23111]	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	-2.43	-2.43	-2.43
RP-HUHTP40-234	6	ENSG00000088035	ALG6	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23157]	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23111]	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]	post-GPI attachment to proteins 1 [Source:HGNC Symbol;Acc:HGNC:25712]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	0.34	0.34	0.34
RP-HUHTP40-234	6	ENSG00000057019	DCBLD2	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23111]	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]	post-GPI attachment to proteins 1 [Source:HGNC Symbol;Acc:HGNC:25712]	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	-0.48	-0.48	-0.48
RP-HUHTP40-234	6	ENSG00000197410	DCHS2	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]	post-GPI attachment to proteins 1 [Source:HGNC Symbol;Acc:HGNC:25712]	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	ATP binding cassette subfamily B member 10 [Source:HGNC Symbol;Acc:HGNC:41]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	0.28	0.28	0.28
RP-HUHTP40-234	6	ENSG00000154511	DIPK1A	post-GPI attachment to proteins 1 [Source:HGNC Symbol;Acc:HGNC:25712]	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	ATP binding cassette subfamily B member 10 [Source:HGNC Symbol;Acc:HGNC:41]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	-0.14	-0.14	-0.14
RP-HUHTP40-234	6	ENSG00000197121	PGAP1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	ATP binding cassette subfamily B member 10 [Source:HGNC Symbol;Acc:HGNC:41]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	EGF domain specific O-linked N-acetylglucosamine transferase [Source:HGNC Symbol;Acc:HGNC:28526]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	0.17	0.17	0.17
RP-HUHTP40-234	6	ENSG00000173930	SLCO4C1	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	EGF domain specific O-linked N-acetylglucosamine transferase [Source:HGNC Symbol;Acc:HGNC:28526]	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	EGF domain specific O-linked N-acetylglucosamine transferase [Source:HGNC Symbol;Acc:HGNC:28526]	-0.11	-0.11	-0.11
RP-HUHTP40-235	5	ENSG00000135776	ABCB10	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:HGNC:23719]	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	-1.30	-1.30	-1.30
RP-HUHTP40-235	5	ENSG00000187676	B3GLCT	post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:HGNC:23719]	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:HGNC:23719]	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	-0.51	-0.51	-0.51
RP-HUHTP40-235	5	ENSG00000163378	EOGT	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]	-0.84	-0.84	-0.84
RP-HUHTP40-235	5	ENSG00000179163	FUCA1	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	-0.86	-0.86	-0.86
RP-HUHTP40-235	5	ENSG00000161395	PGAP3	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	small Cajal body-specific RNA 13 [Source:HGNC Symbol;Acc:HGNC:32570]	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	-0.87	-0.87	-0.87
RP-HUHTP40-236	6	ENSG00000281490	CICP14	small Cajal body-specific RNA 13 [Source:HGNC Symbol;Acc:HGNC:32570]	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	small Cajal body-specific RNA 13 [Source:HGNC Symbol;Acc:HGNC:32570]	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	2.63	2.63	2.63
RP-HUHTP40-236	6	ENSG0000007545	CRAMP1	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	capicua transcriptional repressor pseudogene 14 [Source:HGNC Symbol;Acc:HGNC:38542]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	2.06	2.06	2.06
RP-HUHTP40-236	6	ENSG00000183709	IFNL2	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	5.20	5.20	5.20
RP-HUHTP40-236	6	ENSG00000164188	RANBP3L	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	3.08	3.08	3.08
RP-HUHTP40-236	6	ENSG00000252481	SCARNA13	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	2.80	2.80	2.80
RP-HUHTP40-236	6	ENSG00000110446	SLC15A3	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	3.78	3.78	3.78
RP-HUHTP40-237	4	ENSG00000165376	CLDN2	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	-2.00	-2.00	-2.00
RP-HUHTP40-237	4	ENSG00000133475	GGT2	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	-1.69	-1.69	-1.69
RP-HUHTP40-237	4	ENSG00000164484	TMEM200A	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	-1.90	-1.90	-1.90
RP-HUHTP40-237	4	ENSG00000111186	WNT5B	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	transmembrane protein 200A [Source:HGNC Symbol;Acc:HGNC:21075]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	-1.83	-1.83	-1.83
RP-HUHTP40-238	5	ENSG00000167123	CERCAM	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	-0.90	-0.90	-0.90
RP-HUHTP40-238	5	ENSG00000169105	CHST14	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	-1.02	-1.02	-1.02
RP-HUHTP40-238	5	ENSG00000172197	MBOAT1	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	-0.89	-0.89	-0.89
RP-HUHTP40-238	5	ENSG00000143434	SEMA6C	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	-1.70	-1.70	-1.70
RP-HUHTP40-238	5	ENSG00000139173	TMEM117	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	-0.92	-0.92	-0.92
RP-HUHTP40-239	2	ENSG00000201470	RNY4P7	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	0.26	0.26	0.26
RP-HUHTP40-239	2	ENSG00000201785	SNORD117	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	0.72	0.72	0.72
RP-HUHTP40-240	7	ENSG00000156140	ADAMTS3	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	-1.57	-1.57	-1.57
RP-HUHTP40-240	7	ENSG00000146904	EPHA1	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	EPH receptor A1 [Source:HGNC Symbol;Acc:HGNC:3385]	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	EPH receptor A1 [Source:HGNC Symbol;Acc:HGNC:3385]	EPH receptor A1 [Source:HGNC Symbol;Acc:HGNC:3385]	-1.79	-1.79	-1.79

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log ₂	Log ₂
				FC	CYT	FC	ER	FC	ER	FC
RP-HUHTP40-240	7	ENSG0000010704	HFE	homeostatic iron regulator [Source:HGNC Symbol;Acc:HGNC:4886]		Sym-	-2.03	-2.03		
RP-HUHTP40-240	7	ENSG0000134569	LRP4	LDL receptor related protein 4 [Source:HGNC Symbol;Acc:HGNC:6696]		Sym-	-1.56	-1.56		
RP-HUHTP40-240	7	ENSG0000010379	SLC6A13	solute carrier family 6 member 13 [Source:HGNC Symbol;Acc:HGNC:11046]		Sym-	-1.71	-1.71		
RP-HUHTP40-240	7	ENSG0000159164	SV2A	synaptic vesicle glycoprotein 2A [Source:HGNC Symbol;Acc:HGNC:20566]		Sym-	-0.79	-0.79		
RP-HUHTP40-240	7	ENSG0000137103	TMEM8B	transmembrane protein 8B [Source:HGNC Symbol;Acc:HGNC:21427]		Sym-	-2.44	-2.44		
RP-HUHTP40-241	5	ENSG0000285943		novel protein			2.48	2.48		
RP-HUHTP40-241	5	ENSG0000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]		Sym-	2.85	2.85		
RP-HUHTP40-241	5	ENSG0000235408	SNORAT1B	small nucleolar RNA, H/ACA box 71B [Source:HGNC Symbol;Acc:HGNC:10233]		Sym-	2.69	2.69		
RP-HUHTP40-241	5	ENSG0000186212	SOWAHB	sosondowah ankyrin repeat domain family member B [Source:HGNC Symbol;Acc:HGNC:32958]			2.30	2.30		
RP-HUHTP40-241	5	ENSG0000161996	WDR90	WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:26960]		Sym-	2.95	2.95		
RP-HUHTP40-242	7	ENSG0000143507	DUSP10	dual specificity phosphatase 10 [Source:HGNC Symbol;Acc:HGNC:3065]		Sym-	1.94	1.94		
RP-HUHTP40-242	7	ENSG0000227942	FRMD8P1	FERM domain containing 8 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:24690]			3.62	3.62		
RP-HUHTP40-242	7	ENSG0000110944	IL23A	interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:15488]		Sym-	4.21	4.21		
RP-HUHTP40-242	7	ENSG0000257704	INAFM1	InaF motif containing 1 [Source:HGNC Symbol;Acc:HGNC:27406]		Sym-	2.50	2.50		
RP-HUHTP40-242	7	ENSG0000232624	LINC01517	long intergenic non-protein coding RNA 1517 [Source:HGNC Symbol;Acc:HGNC:51212]			3.31	3.31		
RP-HUHTP40-242	7	ENSG0000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]		Sym-	3.59	3.59		
RP-HUHTP40-242	7	ENSG0000153253	SCN3A	sodium voltage-gated channel alpha subunit 3 [Source:HGNC Symbol;Acc:HGNC:10590]			5.00	5.00		
RP-HUHTP40-243	3	ENSG0000006007	GDE1	glycerophosphodiester phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:29644]		Sym-	-1.99	-1.99		
RP-HUHTP40-243	3	ENSG0000140093	SERPINA10	serpin family A member 10 [Source:HGNC Symbol;Acc:HGNC:15996]		Sym-	-1.15	-1.15		
RP-HUHTP40-243	3	ENSG0000064225	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]			-1.67	-1.67		
RP-HUHTP40-244	5	ENSG0000131781	FMO5	flavin containing monooxygenase 5 [Source:HGNC Symbol;Acc:HGNC:3773]		Sym-	-2.85	-2.85		
RP-HUHTP40-244	5	ENSG0000010810	FYN	FYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4037]			-2.51	-2.51		
RP-HUHTP40-244	5	ENSG0000187867	PALM3	paralemmin 3 [Source:HGNC Symbol;Acc:HGNC:33274]			-3.23	-3.23		
RP-HUHTP40-244	5	ENSG0000119227	PIGZ	phosphatidylinositol glycan anchor biosynthesis class Z [Source:HGNC Symbol;Acc:HGNC:30596]			-3.09	-3.09		
RP-HUHTP40-244	5	ENSG0000066027	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha [Source:HGNC Symbol;Acc:HGNC:9309]		B'alpha	-2.67	-2.67		
RP-HUHTP40-245	2	ENSG0000285711					1.48	1.48		
RP-HUHTP40-245	2	ENSG0000147642	SYBU	syntabulin [Source:HGNC Symbol;Acc:HGNC:26011]			2.22	2.22		
RP-HUHTP40-246	6	ENSG0000273142	LINC02604	long intergenic non-protein coding RNA 2604 [Source:HGNC Symbol;Acc:HGNC:53972]			2.48	2.48		
RP-HUHTP40-246	6	ENSG0000185158	LRRC37B	leucine rich repeat containing 37B [Source:HGNC Symbol;Acc:HGNC:29070]		Sym-	2.28	2.28		
RP-HUHTP40-246	6	ENSG0000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]		Sym-	2.55	2.55		
RP-HUHTP40-246	6	ENSG0000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]			3.27	3.27		
RP-HUHTP40-246	6	ENSG0000169155	ZBTB43	zinc finger and BTB domain containing 43 [Source:HGNC Symbol;Acc:HGNC:17908]			2.67	2.67		
RP-HUHTP40-246	6	ENSG0000119703	ZC2HC1C	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]		Sym-	1.98	1.98		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC
								CYT	ER	
RP-HUHTP40-247	5	ENSG0000090661	CERS4	ceramide synthase bol;Acc:HGNC:23747]	4	[Source:HGNC	Sym-	-0.10	-0.10	
RP-HUHTP40-247	5	ENSG0000142494	SLC47A1	solute carrier family 47 member 1 bol;Acc:HGNC:25588]				-0.40	-0.40	
RP-HUHTP40-247	5	ENSG0000167780	SOAT2	sterol O-acyltransferase 2 bol;Acc:HGNC:11178]				-0.49	-0.49	
RP-HUHTP40-247	5	ENSG0000111199	TRPV4	transient receptor potential cation channel subfamily V member 4 [Source:HGNC Symbol;Acc:HGNC:18083]				-0.57	-0.57	
RP-HUHTP40-247	5	ENSG0000197969	VPS13A	vacuolar protein sorting 13 homolog A [Source:HGNC Symbol;Acc:HGNC:1908]				-0.30	-0.30	
RP-HUHTP40-248	8	ENSG0000250899		novel transcript				1.64	1.64	
RP-HUHTP40-248	8	ENSG0000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]				2.15	2.15	
RP-HUHTP40-248	8	ENSG0000185800	DMWD	DM1 locus, WD repeat containing bol;Acc:HGNC:2936]				1.69	1.69	
RP-HUHTP40-248	8	ENSG0000179532	DNHD1	dynein heavy chain domain 1 bol;Acc:HGNC:26532]				1.73	1.73	
RP-HUHTP40-248	8	ENSG0000107249	GLIS3	GLIS family zinc finger 3 bol;Acc:HGNC:28510]				1.80	1.80	
RP-HUHTP40-248	8	ENSG0000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]				2.37	2.37	
RP-HUHTP40-248	8	ENSG0000124222	STX16	syntaxin 16 [Source:HGNC Symbol;Acc:HGNC:11431]				1.41	1.41	
RP-HUHTP40-248	8	ENSG0000102003	SYP	synaptophysin [Source:HGNC Symbol;Acc:HGNC:11506]				0.64	0.64	
RP-HUHTP40-249	3	ENSG0000266184		ubiquitin fusion degradation 1 like (yeast) (UFD1L) pseudo- gene				-2.32	-2.32	
RP-HUHTP40-249	3	ENSG0000228551	SNRPGP9	small nuclear ribonucleoprotein polypeptide G pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:39328]				-2.00	-2.00	
RP-HUHTP40-249	3	ENSG0000109762	SNX25	sorting nexin 25 [Source:HGNC Symbol;Acc:HGNC:21883]				-1.77	-1.77	
RP-HUHTP40-250	2	ENSG0000178814	OPLAH	5-oxoprolinase, ATP-hydrolysing bol;Acc:HGNC:8149]				1.78	1.78	
RP-HUHTP40-250	2	ENSG0000263934	SNORD3A	small nucleolar RNA, C/D box 3A [Source:HGNC Sym- bol;Acc:HGNC:33189]				1.37	1.37	
RP-HUHTP40-251	4	ENSG0000230779		ribosomal protein, large, P0 (RPLP0) pseudogene				6.23	6.23	
RP-HUHTP40-251	4	ENSG0000173391	OLR1	oxidized low density lipoprotein receptor 1 [Source:HGNC Sym- bol;Acc:HGNC:8133]				3.51	3.51	
RP-HUHTP40-251	4	ENSG0000219532	SELENOKP2	seleノnprotein K pseudogene 2 bol;Acc:HGNC:53725]				3.91	3.91	
RP-HUHTP40-251	4	ENSG0000238936	SNORD6B	small nucleolar RNA, C/D box 65B [Source:HGNC Sym- bol;Acc:HGNC:52231]				4.09	4.09	
RP-HUHTP40-252	4	ENSG0000253223		PRP3 pre-mRNA processing factor 3 homolog (S. cerevisiae) (PRPF3) pseudogene				2.28	2.28	
RP-HUHTP40-252	4	ENSG0000128284	APOL3	apolipoprotein L3 [Source:HGNC Symbol;Acc:HGNC:14868]				4.05	4.05	
RP-HUHTP40-252	4	ENSG0000158516	CPA2	carboxypeptidase A2 bol;Acc:HGNC:2297]				3.79	3.79	
RP-HUHTP40-252	4	ENSG0000163874	ZC3H12A	zinc finger CCCH-type containing 12A [Source:HGNC Sym- bol;Acc:HGNC:26259]				1.74	1.74	
RP-HUHTP40-253	5	ENSG0000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Sym- bol;Acc:HGNC:4604]				3.62	3.62	
RP-HUHTP40-253	5	ENSG0000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Sym- bol;Acc:HGNC:2561]				4.92	4.92	
RP-HUHTP40-253	5	ENSG0000163661	PTX3	pentraxin 3 [Source:HGNC Symbol;Acc:HGNC:9692]				3.68	3.68	
RP-HUHTP40-253	5	ENSG0000155918	RAET1L	retinoic acid early transcript 1L [Source:HGNC Sym- bol;Acc:HGNC:16798]				3.52	3.52	
RP-HUHTP40-253	5	ENSG0000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Sym- bol;Acc:HGNC:11057]				4.91	4.91	
RP-HUHTP40-254	4	ENSG0000103264	FBXO31	F-box protein 31 [Source:HGNC Symbol;Acc:HGNC:16510]				0.56	0.56	
RP-HUHTP40-254	4	ENSG0000185133	INPP5J	inositol polyphosphate-5-phosphatase J [Source:HGNC Sym- bol;Acc:HGNC:8956]				2.19	2.19	
RP-HUHTP40-254	4	ENSG0000198841	KTI12	KTI12 chromatin associated homolog [Source:HGNC Sym- bol;Acc:HGNC:25160]				1.03	1.03	
RP-HUHTP40-254	4	ENSG0000225190	PLEKHM1	pleckstrin homology and RUN domain containing M1 [Source:HGNC Symbol;Acc:HGNC:29017]				0.92	0.92	
RP-HUHTP40-255	3	ENSG0000284976		novel RING finger protein				1.77	1.77	

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHTP40-255	3	ENSG00000231345	BEND3P1	BEN domain containing 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45014]	1.70	1.70
RP-HUHTP40-255	3	ENSG0000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	1.49	1.49
RP-HUHTP40-256	2	ENSG00000114841	DNAH1	dynein axonemal heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:2940]	0.93	0.93
RP-HUHTP40-256	2	ENSG00000176058	TPRN	taperin [Source:HGNC Symbol;Acc:HGNC:26894]	0.05	0.05
RP-HUHTP40-257	5	ENSG00000126603	GLIS2	GLIS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:29450]	1.36	1.36
RP-HUHTP40-257	5	ENSG00000207523	SNORA66	small nucleolar RNA, H/ACA box 66 [Source:HGNC Symbol;Acc:HGNC:10223]	3.77	3.77
RP-HUHTP40-257	5	ENSG00000200354	SNORA71D	small nucleolar RNA, H/ACA box 71D [Source:HGNC Symbol;Acc:HGNC:32657]	3.89	3.89
RP-HUHTP40-257	5	ENSG00000207280	SNORD20	small nucleolar RNA, C/D box 20 [Source:HGNC Symbol;Acc:HGNC:10143]	2.63	2.63
RP-HUHTP40-257	5	ENSG00000232040	ZBED9	zinc finger BED-type containing 9 [Source:HGNC Symbol;Acc:HGNC:13851]	2.16	2.16
RP-HUHTP40-258	6	ENSG00000183586	HMGN3P1	high mobility group nucleosomal binding domain 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39206]	-1.23	-1.23
RP-HUHTP40-258	6	ENSG00000213160	KLHL23	kelch like family member 23 [Source:HGNC Symbol;Acc:HGNC:27506]	-1.06	-1.06
RP-HUHTP40-258	6	ENSG00000161048	NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D [Source:HGNC Symbol;Acc:HGNC:21683]	-1.81	-1.81
RP-HUHTP40-258	6	ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]	-1.97	-1.97
RP-HUHTP40-258	6	ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]	-1.47	-1.47
RP-HUHTP40-258	6	ENSG00000151790	TDO2	tryptophan 2,3-dioxygenase [Source:HGNC Symbol;Acc:HGNC:11708]	-1.71	-1.71
RP-HUHTP40-259	13	ENSG00000163686	ABHD6	abhydrolase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:21398]	-1.10	-1.10
RP-HUHTP40-259	13	ENSG00000144891	AGTR1	angiotensin II receptor type 1 [Source:HGNC Symbol;Acc:HGNC:336]	-2.32	-2.32
RP-HUHTP40-259	13	ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]	-2.45	-2.45
RP-HUHTP40-259	13	ENSG00000163626	COX18	cytochrome c oxidase assembly factor COX18 [Source:HGNC Symbol;Acc:HGNC:26801]	-2.19	-2.19
RP-HUHTP40-259	13	ENSG00000135929	CYP27A1	cytochrome P450 family 27 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2605]	-1.94	-1.94
RP-HUHTP40-259	13	ENSG00000049239	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4795]	-2.12	-2.12
RP-HUHTP40-259	13	ENSG00000184232	OAF	out at first homolog [Source:HGNC Symbol;Acc:HGNC:28752]	-2.42	-2.42
RP-HUHTP40-259	13	ENSG00000197563	PIGN	phosphatidylinositol glycan anchor biosynthesis class N [Source:HGNC Symbol;Acc:HGNC:8967]	-1.41	-1.41
RP-HUHTP40-259	13	ENSG00000138308	PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]	-2.42	-2.42
RP-HUHTP40-259	13	ENSG00000176209	SMIM19	small integral membrane protein 19 [Source:HGNC Symbol;Acc:HGNC:25166]	-2.15	-2.15
RP-HUHTP40-259	13	ENSG00000119977	TCTN3	tectonic family member 3 [Source:HGNC Symbol;Acc:HGNC:24519]	-2.03	-2.03
RP-HUHTP40-259	13	ENSG00000187824	TMEM220	transmembrane protein 220 [Source:HGNC Symbol;Acc:HGNC:33757]	-1.51	-1.51
RP-HUHTP40-259	13	ENSG00000162460	TMEM82	transmembrane protein 82 [Source:HGNC Symbol;Acc:HGNC:32350]	-1.57	-1.57
RP-HUHTP40-260	3	ENSG00000188760	TMEM198	transmembrane protein 198 [Source:HGNC Symbol;Acc:HGNC:33704]	1.36	1.36
RP-HUHTP40-260	3	ENSG00000139800	ZIC5	Zic family member 5 [Source:HGNC Symbol;Acc:HGNC:20322]	1.60	1.60
RP-HUHTP40-260	3	ENSG00000185453	ZSWIM9	zinc finger SWIM-type containing 9 [Source:HGNC Symbol;Acc:HGNC:34495]	1.83	1.83
RP-HUHTP40-261	7	ENSG00000230825			2.23	2.23

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log2	Log2
					FC	FC
					CYT	ER
RP-HUHTP40-261	7	ENSG00000164061	BSN	bassoon presynaptic cytomatrix protein [Source:HGNC Symbol;Acc:HGNC:1117]	2.05	2.05
RP-HUHTP40-261	7	ENSG00000226312	CFLAR-AS1	CFLAR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:14437]	2.07	2.07
RP-HUHTP40-261	7	ENSG00000197110	IFNL3	interferon lambda 3 [Source:HGNC Symbol;Acc:HGNC:18365]	3.77	3.77
RP-HUHTP40-261	7	ENSG00000177943	MAMDC4	MAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:24083]	2.00	2.00
RP-HUHTP40-261	7	ENSG00000133401	PDZD2	PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC:18486]	1.39	1.39
RP-HUHTP40-261	7	ENSG00000238793	SNORD12A	small nucleolar RNA, C/D box 124 [Source:HGNC Symbol;Acc:HGNC:33563]	2.41	2.41
RP-HUHTP40-262	5	ENSG00000233225		single stranded DNA binding protein 3 (SSBP3) pseudogene	-2.81	-2.81
RP-HUHTP40-262	5	ENSG00000141337	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102]	-1.47	-1.47
RP-HUHTP40-262	5	ENSG00000167080	B4GALNT2	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:24136]	-2.05	-2.05
RP-HUHTP40-262	5	ENSG00000218502	H2AFZP3	H2A histone family member Z pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:38013]	-2.49	-2.49
RP-HUHTP40-262	5	ENSG00000227425	MRPS21P2	mitochondrial ribosomal protein S21 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:29749]	-2.47	-2.47
RP-HUHTP40-263	4	ENSG00000137414	FAM8A1	family with sequence similarity 8 member A1 [Source:HGNC Symbol;Acc:HGNC:16372]	-1.33	-1.33
RP-HUHTP40-263	4	ENSG00000144278	GALNT13	polypeptide N-acetylgalactosaminyltransferase 13 [Source:HGNC Symbol;Acc:HGNC:23242]	-1.78	-1.78
RP-HUHTP40-263	4	ENSG00000111670	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta [Source:HGNC Symbol;Acc:HGNC:29670]	-2.00	-2.00
RP-HUHTP40-263	4	ENSG00000069943	PIGB	phosphatidylinositol glycan anchor biosynthesis class B [Source:HGNC Symbol;Acc:HGNC:8959]	-1.11	-1.11
RP-HUHTP40-264	4	ENSG00000163624	CDS1	CDP-diacylglycerol synthase 1 [Source:HGNC Symbol;Acc:HGNC:1800]	0.58	0.58
RP-HUHTP40-264	4	ENSG00000163521	GLB1L	galactosidase beta 1 like [Source:HGNC Symbol;Acc:HGNC:28129]	-0.11	-0.11
RP-HUHTP40-264	4	ENSG00000158669	GPAT4	glycerol-3-phosphate acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:20880]	0.00	0.00
RP-HUHTP40-264	4	ENSG00000173456	RNF26	ring finger protein 26 [Source:HGNC Symbol;Acc:HGNC:14646]	-0.19	-0.19
RP-HUHTP40-265	13	ENSG00000278099			2.43	2.43
RP-HUHTP40-265	13	ENSG00000207110	RNU1-106P	RNA, U1 small nuclear 106, pseudogene [Source:HGNC Symbol;Acc:HGNC:48448]	-0.11	-0.11
RP-HUHTP40-265	13	ENSG00000200800	RNU1-130P	RNA, U1 small nuclear 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:48472]	0.62	0.62
RP-HUHTP40-265	13	ENSG00000212609	RNU1-139P	RNA, U1 small nuclear 139, pseudogene [Source:HGNC Symbol;Acc:HGNC:48481]	1.69	1.69
RP-HUHTP40-265	13	ENSG00000201910	RNU1-140P	RNA, U1 small nuclear 140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48482]	2.34	2.34
RP-HUHTP40-265	13	ENSG00000202347	RNU1-16P	RNA, U1 small nuclear 16, pseudogene [Source:HGNC Symbol;Acc:HGNC:39890]	0.77	0.77
RP-HUHTP40-265	13	ENSG00000200197	RNU1-21P	RNA, U1 small nuclear 21, pseudogene [Source:HGNC Symbol;Acc:HGNC:41947]	1.74	1.74
RP-HUHTP40-265	13	ENSG00000200807	RNU1-32P	RNA, U1 small nuclear 32, pseudogene [Source:HGNC Symbol;Acc:HGNC:48374]	2.10	2.10
RP-HUHTP40-265	13	ENSG00000207175	RNU1-67P	RNA, U1 small nuclear 67, pseudogene [Source:HGNC Symbol;Acc:HGNC:48409]	1.02	1.02
RP-HUHTP40-265	13	ENSG00000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]	1.97	1.97
RP-HUHTP40-265	13	ENSG00000207322	RNU1-89P	RNA, U1 small nuclear 89, pseudogene [Source:HGNC Symbol;Acc:HGNC:48431]	0.98	0.98
RP-HUHTP40-265	13	ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	1.25	1.25
RP-HUHTP40-265	13	ENSG00000207349	RNVU1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]	1.80	1.80

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	\log_2	
					FC	CYT ER
RP-HUHTP40-266	4	ENSG00000176155	CCDC57	coiled-coil domain containing 57 [Source:HGNC Symbol;Acc:HGNC:27564]	1.21	1.21
RP-HUHTP40-266	4	ENSG00000169228	RAB24	RAB24, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9765]	2.10	2.10
RP-HUHTP40-266	4	ENSG00000157152	SYN2	synapsin II [Source:HGNC Symbol;Acc:HGNC:11495]	1.39	1.39
RP-HUHTP40-266	4	ENSG00000166188	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:HGNC:13644]	2.11	2.11
RP-HUHTP40-267	3	ENSG00000197774	EME2	essential meiotic structure-specific endonuclease subunit 2 [Source:HGNC Symbol;Acc:HGNC:27289]	1.69	1.69
RP-HUHTP40-267	3	ENSG00000185507	IRF7	interferon regulatory factor 7 [Source:HGNC Symbol;Acc:HGNC:6122]	1.27	1.27
RP-HUHTP40-267	3	ENSG00000248522	SBF1P1	SET binding factor 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:31098]	2.38	2.38
RP-HUHTP40-268	2	ENSG00000151366	NDUFC2	NADH:ubiquinone oxidoreductase subunit C2 [Source:HGNC Symbol;Acc:HGNC:7706]	-1.15	-1.15
RP-HUHTP40-268	2	ENSG00000170545	SMAGP	small cell adhesion glycoprotein [Source:HGNC Symbol;Acc:HGNC:26918]	-0.13	-0.13
RP-HUHTP40-269	20	ENSG00000101974	ATP11C	ATPase phospholipid transporting 11C [Source:HGNC Symbol;Acc:HGNC:13554]	-0.84	-0.84
RP-HUHTP40-269	20	ENSG00000074410	CA12	carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:1371]	-1.00	-1.00
RP-HUHTP40-269	20	ENSG00000103811	CTSH	cathepsin H [Source:HGNC Symbol;Acc:HGNC:2535]	0.01	0.01
RP-HUHTP40-269	20	ENSG00000185000	DGAT1	diacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2843]	0.02	0.02
RP-HUHTP40-269	20	ENSG00000154309	DISP1	dispatched RND transporter family member 1 [Source:HGNC Symbol;Acc:HGNC:19711]	0.02	0.02
RP-HUHTP40-269	20	ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]	-0.33	-0.33
RP-HUHTP40-269	20	ENSG00000155760	FZD7	frizzled class receptor 7 [Source:HGNC Symbol;Acc:HGNC:4045]	-0.82	-0.82
RP-HUHTP40-269	20	ENSG00000100031	GGT1	gamma-glutamyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4250]	0.16	0.16
RP-HUHTP40-269	20	ENSG00000198951	NAGA	alpha-N-acetylgalactosaminidase [Source:HGNC Symbol;Acc:HGNC:7631]	-0.21	-0.21
RP-HUHTP40-269	20	ENSG00000087303	NID2	nidogen 2 [Source:HGNC Symbol;Acc:HGNC:13389]	-0.08	-0.08
RP-HUHTP40-269	20	ENSG00000163293	NIPAL1	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]	-0.89	-0.89
RP-HUHTP40-269	20	ENSG00000163710	PCOLCE2	procollagen C-endopeptidase enhancer 2 [Source:HGNC Symbol;Acc:HGNC:8739]	-0.43	-0.43
RP-HUHTP40-269	20	ENSG00000154864	PIEZ02	piezo type mechanosensitive ion channel component 2 [Source:HGNC Symbol;Acc:HGNC:26270]	-0.10	-0.10
RP-HUHTP40-269	20	ENSG00000149577	SIDT2	SID1 transmembrane family member 2 [Source:HGNC Symbol;Acc:HGNC:24272]	-0.61	-0.61
RP-HUHTP40-269	20	ENSG00000141526	SLC16A3	solute carrier family 16 member 3 [Source:HGNC Symbol;Acc:HGNC:10924]	-0.46	-0.46
RP-HUHTP40-269	20	ENSG00000089057	SLC23A2	solute carrier family 23 member 2 [Source:HGNC Symbol;Acc:HGNC:10973]	-0.01	-0.01
RP-HUHTP40-269	20	ENSG00000134802	SLC43A3	solute carrier family 43 member 3 [Source:HGNC Symbol;Acc:HGNC:17466]	-0.39	-0.39
RP-HUHTP40-269	20	ENSG00000080493	SLC4A4	solute carrier family 4 member 4 [Source:HGNC Symbol;Acc:HGNC:11030]	-0.66	-0.66
RP-HUHTP40-269	20	ENSG00000084453	SLCO1A2	solute carrier organic anion transporter family member 1A2 [Source:HGNC Symbol;Acc:HGNC:10956]	-0.75	-0.75
RP-HUHTP40-269	20	ENSG00000151715	TMEM45B	transmembrane protein 45B [Source:HGNC Symbol;Acc:HGNC:25194]	0.01	0.01

Table 51: Co-expressed gene clusters (RP, Huh7, 40h PI)

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-001	2	ENSG00000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]		
RP-HUHALLTP-001	2	ENSG00000113161	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase [Source:HGNC Symbol;Acc:HGNC:5006]		
RP-HUHALLTP-002	6	ENSG00000081051	AFP	alpha fetoprotein [Source:HGNC Symbol;Acc:HGNC:317]		
RP-HUHALLTP-002	6	ENSG00000163631	ALB	albumin [Source:HGNC Symbol;Acc:HGNC:399]		
RP-HUHALLTP-002	6	ENSG00000157399	ARSE	arylsulfatase E [Source:HGNC Symbol;Acc:HGNC:719]		
RP-HUHALLTP-002	6	ENSG00000109861	CTSC	cathepsin C [Source:HGNC Symbol;Acc:HGNC:2528]		
RP-HUHALLTP-002	6	ENSG00000152952	PLOD2	procollagen-lysine,2-oxoglutamate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]	2	
RP-HUHALLTP-002	6	ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]		
RP-HUHALLTP-003	5	ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]		
RP-HUHALLTP-003	5	ENSG00000108582	CPD	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]		
RP-HUHALLTP-003	5	ENSG00000147257	GPC3	glycan 3 [Source:HGNC Symbol;Acc:HGNC:4451]		
RP-HUHALLTP-003	5	ENSG00000135862	LAMC1	laminin subunit gamma 1 [Source:HGNC Symbol;Acc:HGNC:6492]		
RP-HUHALLTP-003	5	ENSG00000107798	LIPA	lipase A, lysosomal acid type [Source:HGNC Symbol;Acc:HGNC:6617]		
RP-HUHALLTP-004	3	ENSG00000107984	DKK1	dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:2891]		
RP-HUHALLTP-004	3	ENSG00000008394	MGST1	microsomal glutathione S-transferase 1 [Source:HGNC Symbol;Acc:HGNC:7061]		
RP-HUHALLTP-004	3	ENSG00000099937	SERPIND1	serpin family D member 1 [Source:HGNC Symbol;Acc:HGNC:4838]		
RP-HUHALLTP-005	2	ENSG00000134802	SLC43A3	solute carrier family 43 member 3 [Source:HGNC Symbol;Acc:HGNC:17466]		
RP-HUHALLTP-005	2	ENSG00000151715	TMEM45B	transmembrane protein 45B [Source:HGNC Symbol;Acc:HGNC:25194]		
RP-HUHALLTP-006	4	ENSG00000069849	ATP1B3	ATPase Na ⁺ /K ⁺ transporting subunit beta 3 [Source:HGNC Symbol;Acc:HGNC:806]		
RP-HUHALLTP-006	4	ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]		
RP-HUHALLTP-006	4	ENSG00000104549	SQLE	squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:11279]		
RP-HUHALLTP-006	4	ENSG0000003436	TFPI	tissue factor pathway inhibitor [Source:HGNC Symbol;Acc:HGNC:11760]		
RP-HUHALLTP-007	3	ENSG00000159063	ALG8	ALG8, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23161]		
RP-HUHALLTP-007	3	ENSG00000091583	APOH	apolipoprotein H [Source:HGNC Symbol;Acc:HGNC:616]		
RP-HUHALLTP-007	3	ENSG00000188488	SERPINA5	serpin family A member 5 [Source:HGNC Symbol;Acc:HGNC:8723]		
RP-HUHALLTP-008	2	ENSG00000112818	MEP1A	meprin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]		
RP-HUHALLTP-008	2	ENSG00000114638	UPK1B	uroplakin 1B [Source:HGNC Symbol;Acc:HGNC:12578]		
RP-HUHALLTP-009	2	ENSG00000138744	NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:HGNC:736]		
RP-HUHALLTP-009	2	ENSG00000105852	PON3	paraoxonase 3 [Source:HGNC Symbol;Acc:HGNC:9206]		
RP-HUHALLTP-010	2	ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]		
RP-HUHALLTP-010	2	ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-011	2	ENSG00000224550		NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa (NDUFA4) pseudogene		
RP-HUHALLTP-011	2	ENSG00000143653	SCCPDH	saccharopine dehydrogenase (putative) [Source:HGNC Symbol;Acc:HGNC:24275]		
RP-HUHALLTP-012	2	ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]		
RP-HUHALLTP-012	2	ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]		
RP-HUHALLTP-013	2	ENSG00000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]		
RP-HUHALLTP-013	2	ENSG00000197965	MPZL1	myelin protein zero like 1 [Source:HGNC Symbol;Acc:HGNC:7226]		
RP-HUHALLTP-014	3	ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]		
RP-HUHALLTP-014	3	ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6205]		
RP-HUHALLTP-014	3	ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]		
RP-HUHALLTP-015	2	ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]		
RP-HUHALLTP-015	2	ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]		
RP-HUHALLTP-016	3	ENSG00000205213	LGR4	leucine rich repeat containing G protein-coupled receptor 4 [Source:HGNC Symbol;Acc:HGNC:13299]		
RP-HUHALLTP-016	3	ENSG00000070214	SLC44A1	solute carrier family 44 member 1 [Source:HGNC Symbol;Acc:HGNC:18798]		
RP-HUHALLTP-016	3	ENSG00000131389	SLC6A6	solute carrier family 6 member 6 [Source:HGNC Symbol;Acc:HGNC:11052]		
RP-HUHALLTP-017	2	ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]		
RP-HUHALLTP-017	2	ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]		
RP-HUHALLTP-018	2	ENSG00000138798	EGF	epidermal growth factor [Source:HGNC Symbol;Acc:HGNC:3229]		
RP-HUHALLTP-018	2	ENSG00000174358	SLC6A19	solute carrier family 6 member 19 [Source:HGNC Symbol;Acc:HGNC:27960]		
RP-HUHALLTP-019	3	ENSG00000101216	GMEB2	glucocorticoid modulatory element binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4371]		
RP-HUHALLTP-019	3	ENSG00000064932	SBNO2	strawberry notch homolog 2 [Source:HGNC Symbol;Acc:HGNC:29158]		
RP-HUHALLTP-019	3	ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]		
RP-HUHALLTP-020	4	ENSG00000173905	GOLIM4	golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15448]		
RP-HUHALLTP-020	4	ENSG00000070018	LRP6	LDL receptor related protein 6 [Source:HGNC Symbol;Acc:HGNC:6698]		
RP-HUHALLTP-020	4	ENSG00000105854	PON2	paraoxonase 2 [Source:HGNC Symbol;Acc:HGNC:9205]		
RP-HUHALLTP-020	4	ENSG00000099194	SCD	stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:10571]		
RP-HUHALLTP-021	2	ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]		
RP-HUHALLTP-021	2	ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]		
RP-HUHALLTP-022	2	ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]		
RP-HUHALLTP-022	2	ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]		
RP-HUHALLTP-023	3	ENSG00000129474	AJUBA	ajuba LIM protein [Source:HGNC Symbol;Acc:HGNC:20250]		
RP-HUHALLTP-023	3	ENSG00000172216	CEBPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log2 FC	Log2 FC
									CYT	ER
RP-HUHALLTP-023	3	ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]						
RP-HUHALLTP-024	4	ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]						
RP-HUHALLTP-024	4	ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]						
RP-HUHALLTP-024	4	ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]						
RP-HUHALLTP-024	4	ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]						
RP-HUHALLTP-025	3	ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]						
RP-HUHALLTP-025	3	ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]						
RP-HUHALLTP-025	3	ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]						
RP-HUHALLTP-026	6	ENSG00000104853	CLPTM1	CLPTM1, transmembrane protein [Source:HGNC Symbol;Acc:HGNC:2087]						
RP-HUHALLTP-026	6	ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]						
RP-HUHALLTP-026	6	ENSG00000147255	IGSF1	immunoglobulin superfamily member 1 [Source:HGNC Symbol;Acc:HGNC:5948]						
RP-HUHALLTP-026	6	ENSG00000129636	ITFG1	integrin alpha FG-GAP repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:30697]						
RP-HUHALLTP-026	6	ENSG00000167711	SERPINF2	serpin family F member 2 [Source:HGNC Symbol;Acc:HGNC:9075]						
RP-HUHALLTP-026	6	ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]						
RP-HUHALLTP-027	3	ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]						
RP-HUHALLTP-027	3	ENSG00000156030	ELMSAN1	ELM2 and Myb/SANT domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19853]						
RP-HUHALLTP-027	3	ENSG00000104866	PPP1R37	protein phosphatase 1 regulatory subunit 37 [Source:HGNC Symbol;Acc:HGNC:27607]						
RP-HUHALLTP-028	2	ENSG00000144891	AGTR1	angiotensin II receptor type 1 [Source:HGNC Symbol;Acc:HGNC:336]						
RP-HUHALLTP-028	2	ENSG00000135929	CYP27A1	cytochrome P450 family 27 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2605]						
RP-HUHALLTP-029	5	ENSG00000123179	EBPL	EBP like [Source:HGNC Symbol;Acc:HGNC:18061]						
RP-HUHALLTP-029	5	ENSG00000149084	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646]						
RP-HUHALLTP-029	5	ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]						
RP-HUHALLTP-029	5	ENSG00000072042	RDH11	retinol dehydrogenase 11 [Source:HGNC Symbol;Acc:HGNC:17964]						
RP-HUHALLTP-029	5	ENSG00000135317	SNX14	sorting nexin 14 [Source:HGNC Symbol;Acc:HGNC:14977]						
RP-HUHALLTP-030	2	ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]						
RP-HUHALLTP-030	2	ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]						
RP-HUHALLTP-031	5	ENSG00000148702	HABP2	hyaluronan binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4798]						
RP-HUHALLTP-031	5	ENSG00000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]						
RP-HUHALLTP-031	5	ENSG00000107789	MINPP1	multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:7102]						
RP-HUHALLTP-031	5	ENSG00000122884	P4HA1	prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:8546]						
RP-HUHALLTP-031	5	ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]						

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-032	5	ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]		
RP-HUHALLTP-032	5	ENSG00000169814	BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]		
RP-HUHALLTP-032	5	ENSG00000135678	CPM	carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311]		
RP-HUHALLTP-032	5	ENSG00000150893	FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:25396]		
RP-HUHALLTP-032	5	ENSG00000117906	RCN2	reticulocalbin 2 [Source:HGNC Symbol;Acc:HGNC:9935]		
RP-HUHALLTP-033	5	ENSG00000177119	ANO6	anoctamin 6 [Source:HGNC Symbol;Acc:HGNC:25240]		
RP-HUHALLTP-033	5	ENSG00000151348	EXT2	exostosin glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3513]		
RP-HUHALLTP-033	5	ENSG00000050130	JKAMP	JNK1/MAPK8 associated membrane protein [Source:HGNC Symbol;Acc:HGNC:20184]		
RP-HUHALLTP-033	5	ENSG00000073060	SCARB1	scavenger receptor class B member 1 [Source:HGNC Symbol;Acc:HGNC:1664]		
RP-HUHALLTP-033	5	ENSG00000167780	SOAT2	sterol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:11178]		
RP-HUHALLTP-034	2	ENSG00000104998	IL27RA	interleukin 27 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:17290]		
RP-HUHALLTP-034	2	ENSG00000176273	SLC35G1	solute carrier family 35 member G1 [Source:HGNC Symbol;Acc:HGNC:26607]		
RP-HUHALLTP-035	2	ENSG00000108846	ABCC3	ATP binding cassette subfamily C member 3 [Source:HGNC Symbol;Acc:HGNC:54]		
RP-HUHALLTP-035	2	ENSG00000170275	CRTAP	cartilage associated protein [Source:HGNC Symbol;Acc:HGNC:2379]		
RP-HUHALLTP-036	5	ENSG00000114019	AMOTL2	angiomin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]		
RP-HUHALLTP-036	5	ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]		
RP-HUHALLTP-036	5	ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]		
RP-HUHALLTP-036	5	ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]		
RP-HUHALLTP-036	5	ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]		
RP-HUHALLTP-037	4	ENSG00000100473	COCH	cochlin [Source:HGNC Symbol;Acc:HGNC:2180]		
RP-HUHALLTP-037	4	ENSG00000121005	CRISPLD1	cysteine rich secretory protein LCCL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18206]		
RP-HUHALLTP-037	4	ENSG00000144035	NAT8	N-acetyltransferase 8 (putative) [Source:HGNC Symbol;Acc:HGNC:18069]		
RP-HUHALLTP-037	4	ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]		
RP-HUHALLTP-038	7	ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]		
RP-HUHALLTP-038	7	ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]		
RP-HUHALLTP-038	7	ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]		
RP-HUHALLTP-038	7	ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6206]		
RP-HUHALLTP-038	7	ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]		
RP-HUHALLTP-038	7	ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]		
RP-HUHALLTP-038	7	ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]		
RP-HUHALLTP-039	2	ENSG00000111684	LPCAT3	lysophosphatidylcholine acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:30244]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHALLTP-039	2	ENSG00000177669	MBOAT4	membrane bound O-acyltransferase domain containing 4 [Source:HGNC Symbol;Acc:HGNC:32311]		
RP-HUHALLTP-040	4	ENSG00000167522	ANKRD11	ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:HGNC:21316]		
RP-HUHALLTP-040	4	ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]		
RP-HUHALLTP-040	4	ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]		
RP-HUHALLTP-040	4	ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]		
RP-HUHALLTP-041	2	ENSG00000070778	PTPN21	protein tyrosine phosphatase, non-receptor type 21 [Source:HGNC Symbol;Acc:HGNC:9651]		
RP-HUHALLTP-041	2	ENSG00000100014	SPECC1L	sperm antigen with calponin homology and coiled-coil domains 1 like [Source:HGNC Symbol;Acc:HGNC:29022]		
RP-HUHALLTP-042	2	ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]		
RP-HUHALLTP-042	2	ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]		
RP-HUHALLTP-043	2	ENSG00000196743	GM2A	GM2 ganglioside activator [Source:HGNC Symbol;Acc:HGNC:4367]		
RP-HUHALLTP-043	2	ENSG00000127324	TSPAN8	tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:11855]		
RP-HUHALLTP-044	2	ENSG00000180448	ARHGAP45	Rho GTPase activating protein 45 [Source:HGNC Symbol;Acc:HGNC:17102]		
RP-HUHALLTP-044	2	ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]		
RP-HUHALLTP-045	4	ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]		
RP-HUHALLTP-045	4	ENSG00000118046	STK11	serine/threonine kinase 11 [Source:HGNC Symbol;Acc:HGNC:11389]		
RP-HUHALLTP-045	4	ENSG00000171992	SYNPO	synaptopodin [Source:HGNC Symbol;Acc:HGNC:30672]		
RP-HUHALLTP-045	4	ENSG00000142409	ZNF787	zinc finger protein 787 [Source:HGNC Symbol;Acc:HGNC:26998]		
RP-HUHALLTP-046	2	ENSG00000248713	C4orf54	chromosome 4 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:27741]		
RP-HUHALLTP-046	2	ENSG00000135842	FAM129A	family with sequence similarity 129 member A [Source:HGNC Symbol;Acc:HGNC:16784]		
RP-HUHALLTP-047	4	ENSG00000180745	CLRN3	clarin 3 [Source:HGNC Symbol;Acc:HGNC:20795]		
RP-HUHALLTP-047	4	ENSG00000144320	LNPK	lunapark, ER junction formation factor [Source:HGNC Symbol;Acc:HGNC:21610]		
RP-HUHALLTP-047	4	ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]		
RP-HUHALLTP-047	4	ENSG00000139291	TMEM19	transmembrane protein 19 [Source:HGNC Symbol;Acc:HGNC:25605]		
RP-HUHALLTP-048	2	ENSG00000163823	CCR1	C-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:1602]		
RP-HUHALLTP-048	2	ENSG00000171234	UGT2B7	UDP glucuronosyltransferase family 2 member B7 [Source:HGNC Symbol;Acc:HGNC:12554]		
RP-HUHALLTP-049	2	ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]		
RP-HUHALLTP-049	2	ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]		
RP-HUHALLTP-050	4	ENSG00000112852	PCDHB2	protocadherin beta 2 [Source:HGNC Symbol;Acc:HGNC:8687]		
RP-HUHALLTP-050	4	ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]		
RP-HUHALLTP-050	4	ENSG00000073849	ST6GAL1	ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10860]		
RP-HUHALLTP-050	4	ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHALLTP-051	2	ENSG00000138109	CYP2C9	cytochrome P450 family 2 subfamily C member 9 [Source:HGNC Symbol;Acc:HGNC:2623]		
RP-HUHALLTP-051	2	ENSG00000158457	TSPAN33	tetraspanin 33 [Source:HGNC Symbol;Acc:HGNC:28743]		
RP-HUHALLTP-052	2	ENSG00000198198	SZT2	SZT2, KICSTOR complex subunit [Source:HGNC Symbol;Acc:HGNC:29040]		
RP-HUHALLTP-052	2	ENSG00000118900	UBN1	ubinuclein 1 [Source:HGNC Symbol;Acc:HGNC:12506]		
RP-HUHALLTP-053	4	ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]		
RP-HUHALLTP-053	4	ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]		
RP-HUHALLTP-053	4	ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]		
RP-HUHALLTP-053	4	ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]		
RP-HUHALLTP-054	3	ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]		
RP-HUHALLTP-054	3	ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]		
RP-HUHALLTP-054	3	ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]		
RP-HUHALLTP-055	4	ENSG00000173402	DAG1	dystroglycan 1 [Source:HGNC Symbol;Acc:HGNC:2666]		
RP-HUHALLTP-055	4	ENSG00000122642	FKBP9	FK506 binding protein 9 [Source:HGNC Symbol;Acc:HGNC:3725]		
RP-HUHALLTP-055	4	ENSG00000111846	GCNT2	glucosaminyl (N-acetyl) transferase 2 (I blood group) [Source:HGNC Symbol;Acc:HGNC:4204]		
RP-HUHALLTP-055	4	ENSG00000087111	PIGS	phosphatidylinositol glycan anchor biosynthesis class S [Source:HGNC Symbol;Acc:HGNC:14937]		
RP-HUHALLTP-056	5	ENSG00000088035	ALG6	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23157]		
RP-HUHALLTP-056	5	ENSG00000197410	DCHS2	dachshous cadherin-related 2 [Source:HGNC Symbol;Acc:HGNC:23111]		
RP-HUHALLTP-056	5	ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]		
RP-HUHALLTP-056	5	ENSG00000113205	PCDHB3	protocadherin beta 3 [Source:HGNC Symbol;Acc:HGNC:8688]		
RP-HUHALLTP-056	5	ENSG00000116005	PCYOX1	prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:HGNC:20588]		
RP-HUHALLTP-057	3	ENSG00000133454	MYO18B	myosin XVIIIB [Source:HGNC Symbol;Acc:HGNC:18150]		
RP-HUHALLTP-057	3	ENSG00000118495	PLAGL1	PLAG1 like zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:9046]		
RP-HUHALLTP-057	3	ENSG00000141084	RANBP10	RAN binding protein 10 [Source:HGNC Symbol;Acc:HGNC:29285]		
RP-HUHALLTP-058	2	ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]		
RP-HUHALLTP-058	2	ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]		
RP-HUHALLTP-059	4	ENSG00000139055	ERP27	endoplasmic reticulum protein 27 [Source:HGNC Symbol;Acc:HGNC:26495]		
RP-HUHALLTP-059	4	ENSG00000100665	SERPINA4	serpin family A member 4 [Source:HGNC Symbol;Acc:HGNC:8948]		
RP-HUHALLTP-059	4	ENSG00000198732	SMOC1	SPARC related modular calcium binding 1 [Source:HGNC Symbol;Acc:HGNC:20318]		
RP-HUHALLTP-059	4	ENSG00000087301	TXNDC16	thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:HGNC:19965]		
RP-HUHALLTP-060	8	ENSG00000130309	COLGALT1	collagen beta(1-O)galactosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26182]		
RP-HUHALLTP-060	8	ENSG00000117298	ECE1	endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:HGNC:3146]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description						\log_2 FC CYT	\log_2 FC ER
				fatty acid desaturase	2	[Source:HGNC	Sym-				
RP-HUHALLTP-060	8	ENSG00000134824	FADS2	fatty acid desaturase	2	[Source:HGNC	Sym-				
RP-HUHALLTP-060	8	ENSG00000077942	FBLN1	bol;Acc:HGNC:3575] fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]							
RP-HUHALLTP-060	8	ENSG00000138759	FRAS1	Fraser extracellular matrix complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:19185]							
RP-HUHALLTP-060	8	ENSG00000134962	KLB	klotho beta [Source:HGNC Symbol;Acc:HGNC:15527]							
RP-HUHALLTP-060	8	ENSG00000134243	SORT1	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]							
RP-HUHALLTP-060	8	ENSG00000106771	TMEM245	transmembrane protein	245	[Source:HGNC	Sym-				
RP-HUHALLTP-061	2	ENSG00000113716	HMGXB3	symbol;Acc:HGNC:1363] HMG-box containing	3	[Source:HGNC	Sym-				
RP-HUHALLTP-061	2	ENSG00000175115	PACS1	phosphofuran acidic cluster sorting protein 1 [Source:HGNC Symbol;Acc:HGNC:30032]							
RP-HUHALLTP-062	5	ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]							
RP-HUHALLTP-062	5	ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]							
RP-HUHALLTP-062	5	ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]							
RP-HUHALLTP-062	5	ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]							
RP-HUHALLTP-062	5	ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]							
RP-HUHALLTP-063	3	ENSG00000163624	CDS1	CDP-diacylglycerol synthase 1 [Source:HGNC Symbol;Acc:HGNC:1800]							
RP-HUHALLTP-063	3	ENSG00000205403	CFI	complement factor I [Source:HGNC Symbol;Acc:HGNC:5394]							
RP-HUHALLTP-063	3	ENSG00000106823	ECM2	extracellular matrix protein	2	[Source:HGNC	Sym-				
RP-HUHALLTP-064	4	ENSG00000088812	ATRN	symbol;Acc:HGNC:3154] attractin [Source:HGNC Symbol;Acc:HGNC:885]							
RP-HUHALLTP-064	4	ENSG00000171365	CLCN5	chloride voltage-gated channel 5 [Source:HGNC Symbol;Acc:HGNC:2023]							
RP-HUHALLTP-064	4	ENSG00000146409	SLC18B1	solute carrier family 18 member B1 [Source:HGNC Symbol;Acc:HGNC:21573]							
RP-HUHALLTP-064	4	ENSG00000139324	TMTC3	transmembrane and tetratricopeptide repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:26899]							
RP-HUHALLTP-065	4	ENSG00000114771	AADAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc:HGNC:17]							
RP-HUHALLTP-065	4	ENSG00000154309	DISP1	dispatched RND transporter family member 1 [Source:HGNC Symbol;Acc:HGNC:19711]							
RP-HUHALLTP-065	4	ENSG00000169174	PCSK9	proprotein convertase subtilisin/kexin type 9 [Source:HGNC Symbol;Acc:HGNC:20001]							
RP-HUHALLTP-065	4	ENSG00000188338	SLC38A3	solute carrier family 38 member 3 [Source:HGNC Symbol;Acc:HGNC:18044]							
RP-HUHALLTP-066	5	ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase	5	[Source:HGNC Symbol;Acc:HGNC:3367]					
RP-HUHALLTP-066	5	ENSG00000083857	FAT1	FAT atypical cadherin	1	[Source:HGNC	Sym-				
RP-HUHALLTP-066	5	ENSG00000169562	GJB1	gap junction protein beta	1	[Source:HGNC	Sym-				
RP-HUHALLTP-066	5	ENSG00000163581	SLC2A2	solute carrier family 2 member	2	[Source:HGNC	Sym-				
RP-HUHALLTP-066	5	ENSG00000139209	SLC38A4	solute carrier family 38 member	4	[Source:HGNC	Sym-				
RP-HUHALLTP-067	2	ENSG00000183709	IFNL2	interferon lambda	2	[Source:HGNC	Sym-				
RP-HUHALLTP-067	2	ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]							

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-068	7	ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]		
RP-HUHALLTP-068	7	ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3797]		
RP-HUHALLTP-068	7	ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]		
RP-HUHALLTP-068	7	ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]		
RP-HUHALLTP-068	7	ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]		
RP-HUHALLTP-068	7	ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]		
RP-HUHALLTP-068	7	ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]		
RP-HUHALLTP-069	2	ENSG00000079432	CIC	cicapua transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:14214]		
RP-HUHALLTP-069	2	ENSG00000125503	PPP1R12C	protein phosphatase 1 regulatory subunit 12C [Source:HGNC Symbol;Acc:HGNC:14947]		
RP-HUHALLTP-070	2	ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]		
RP-HUHALLTP-070	2	ENSG00000049239	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4795]		
RP-HUHALLTP-071	6	ENSG00000080618	CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]		
RP-HUHALLTP-071	6	ENSG00000178772	CPN2	carboxypeptidase N subunit 2 [Source:HGNC Symbol;Acc:HGNC:2313]		
RP-HUHALLTP-071	6	ENSG00000135916	ITM2C	integral membrane protein 2C [Source:HGNC Symbol;Acc:HGNC:6175]		
RP-HUHALLTP-071	6	ENSG00000113889	KNG1	kininogen 1 [Source:HGNC Symbol;Acc:HGNC:6383]		
RP-HUHALLTP-071	6	ENSG00000115255	REEP6	receptor accessory protein 6 [Source:HGNC Symbol;Acc:HGNC:30078]		
RP-HUHALLTP-071	6	ENSG00000137491	SLCO2B1	solute carrier organic anion transporter family member 2B1 [Source:HGNC Symbol;Acc:HGNC:10962]		
RP-HUHALLTP-072	3	ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]		
RP-HUHALLTP-072	3	ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]		
RP-HUHALLTP-072	3	ENSG00000120686	UFM1	ubiquitin fold modifier 1 [Source:HGNC Symbol;Acc:HGNC:20597]		
RP-HUHALLTP-073	2	ENSG00000169105	CHST14	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]		
RP-HUHALLTP-073	2	ENSG00000134569	LRP4	LDL receptor related protein 4 [Source:HGNC Symbol;Acc:HGNC:6696]		
RP-HUHALLTP-074	5	ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]		
RP-HUHALLTP-074	5	ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]		
RP-HUHALLTP-074	5	ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]		
RP-HUHALLTP-074	5	ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]		
RP-HUHALLTP-074	5	ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]		
RP-HUHALLTP-075	3	ENSG00000136383	ALPK3	alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:17574]		
RP-HUHALLTP-075	3	ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]		
RP-HUHALLTP-075	3	ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]		
RP-HUHALLTP-076	5	ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log ₂ CYT	Log ₂ FC
									ER	
RP-HUHALLTP-076	5	ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]						
RP-HUHALLTP-076	5	ENSG00000113569	NUP155	nucleoporin 155 [Source:HGNC Symbol;Acc:HGNC:8063]						
RP-HUHALLTP-076	5	ENSG00000250722	SELENOP	selenoprotein P [Source:HGNC Symbol;Acc:HGNC:10751]						
RP-HUHALLTP-076	5	ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]						
RP-HUHALLTP-077	3	ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]						
RP-HUHALLTP-077	3	ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]						
RP-HUHALLTP-077	3	ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]						
RP-HUHALLTP-078	4	ENSG00000071655	MBD3	methyl-CpG binding domain protein 3 [Source:HGNC Symbol;Acc:HGNC:6918]						
RP-HUHALLTP-078	4	ENSG00000116786	PLEKHM2	pleckstrin homology and RUN domain containing M2 [Source:HGNC Symbol;Acc:HGNC:29131]						
RP-HUHALLTP-078	4	ENSG00000135631	RAB11FIP5	RAB11 family interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:24845]						
RP-HUHALLTP-078	4	ENSG00000100241	SBF1	SET binding factor 1 [Source:HGNC Symbol;Acc:HGNC:10542]						
RP-HUHALLTP-079	3	ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]						
RP-HUHALLTP-079	3	ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]						
RP-HUHALLTP-079	3	ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]						
RP-HUHALLTP-080	2	ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]						
RP-HUHALLTP-080	2	ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]						
RP-HUHALLTP-081	2	ENSG00000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]						
RP-HUHALLTP-081	2	ENSG00000198832	SELENOM	selenoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]						
RP-HUHALLTP-082	4	ENSG00000146826	C7orf43	chromosome 7 open reading frame 43 [Source:HGNC Symbol;Acc:HGNC:25604]						
RP-HUHALLTP-082	4	ENSG00000105321	CCDC9	coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:HGNC:24560]						
RP-HUHALLTP-082	4	ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]						
RP-HUHALLTP-082	4	ENSG00000174276	ZNHIT2	zinc finger HIT-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1177]						
RP-HUHALLTP-083	2	ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]						
RP-HUHALLTP-083	2	ENSG00000197483	ZNF628	zinc finger protein 628 [Source:HGNC Symbol;Acc:HGNC:28054]						
RP-HUHALLTP-084	4	ENSG00000133657	ATP13A3	ATPase 13A3 [Source:HGNC Symbol;Acc:HGNC:24113]						
RP-HUHALLTP-084	4	ENSG00000206527	HACD2	3-hydroxyacyl-CoA dehydratase 2 [Source:HGNC Symbol;Acc:HGNC:9640]						
RP-HUHALLTP-084	4	ENSG00000115084	SLC35F5	solute carrier family 35 member F5 [Source:HGNC Symbol;Acc:HGNC:23617]						
RP-HUHALLTP-084	4	ENSG00000197969	VPS13A	vacuolar protein sorting 13 homolog A [Source:HGNC Symbol;Acc:HGNC:1908]						
RP-HUHALLTP-085	4	ENSG00000145214	DGKQ	diacylglycerol kinase theta [Source:HGNC Symbol;Acc:HGNC:2856]						
RP-HUHALLTP-085	4	ENSG00000129932	DOHH	deoxyhypusine hydroxylase [Source:HGNC Symbol;Acc:HGNC:28662]						
RP-HUHALLTP-085	4	ENSG00000249115	HAUS5	HAUS augmin like complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:29130]						

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	Log ₂	Log ₂
					FC	FC
					CYT	ER
RP-HUHALLTP-085	4	ENSG00000126461	SCAF1	SR-related CTD associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30403]		
RP-HUHALLTP-086	4	ENSG00000088826	SMOX	spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]		
RP-HUHALLTP-086	4	ENSG00000068323	TFE3	transcription factor binding to IGHM enhancer 3 [Source:HGNC Symbol;Acc:HGNC:11752]		
RP-HUHALLTP-086	4	ENSG00000038382	TRIO	trio Rho guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:12303]		
RP-HUHALLTP-086	4	ENSG00000162714	ZNF496	zinc finger protein 496 [Source:HGNC Symbol;Acc:HGNC:23713]		
RP-HUHALLTP-087	2	ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]		
RP-HUHALLTP-087	2	ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]		
RP-HUHALLTP-088	6	ENSG00000101974	ATP11C	ATPase phospholipid transporting 11C [Source:HGNC Symbol;Acc:HGNC:13554]		
RP-HUHALLTP-088	6	ENSG00000074410	CA12	carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:1371]		
RP-HUHALLTP-088	6	ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]		
RP-HUHALLTP-088	6	ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]		
RP-HUHALLTP-088	6	ENSG00000170099	SERPINA6	serpin family A member 6 [Source:HGNC Symbol;Acc:HGNC:1540]		
RP-HUHALLTP-088	6	ENSG00000112394	SLC16A10	solute carrier family 16 member 10 [Source:HGNC Symbol;Acc:HGNC:17027]		
RP-HUHALLTP-089	4	ENSG00000011132	APBA3	amyloid beta precursor protein binding family A member 3 [Source:HGNC Symbol;Acc:HGNC:580]		
RP-HUHALLTP-089	4	ENSG00000100226	GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4669]		
RP-HUHALLTP-089	4	ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]		
RP-HUHALLTP-089	4	ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]		
RP-HUHALLTP-090	6	ENSG00000135924	DNAJB2	DnAJ heat shock protein family (Hsp40) member B2 [Source:HGNC Symbol;Acc:HGNC:5228]		
RP-HUHALLTP-090	6	ENSG00000167378	IRGQ	immunity related GTPase Q [Source:HGNC Symbol;Acc:HGNC:24868]		
RP-HUHALLTP-090	6	ENSG00000198853	RUSC2	RUN and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23625]		
RP-HUHALLTP-090	6	ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]		
RP-HUHALLTP-090	6	ENSG00000113645	WWC1	WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29435]		
RP-HUHALLTP-090	6	ENSG00000198026	ZNF335	zinc finger protein 335 [Source:HGNC Symbol;Acc:HGNC:15807]		
RP-HUHALLTP-091	2	ENSG00000149547	EI24	EI24, autophagy associated transmembrane protein [Source:HGNC Symbol;Acc:HGNC:13276]		
RP-HUHALLTP-091	2	ENSG00000116199	FAM20B	FAM20B, glycosaminoglycan xylosylkinase [Source:HGNC Symbol;Acc:HGNC:23017]		
RP-HUHALLTP-092	2	ENSG00000161031	PGLYRP2	peptidoglycan recognition protein 2 [Source:HGNC Symbol;Acc:HGNC:30013]		
RP-HUHALLTP-092	2	ENSG00000124568	SLC17A1	solute carrier family 17 member 1 [Source:HGNC Symbol;Acc:HGNC:10929]		
RP-HUHALLTP-093	3	ENSG00000123838	C4BPA	complement component 4 binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1325]		
RP-HUHALLTP-093	3	ENSG00000188153	COL4A5	collagen type IV alpha 5 chain [Source:HGNC Symbol;Acc:HGNC:2207]		
RP-HUHALLTP-093	3	ENSG00000228278	ORM2	orosomucoid 2 [Source:HGNC Symbol;Acc:HGNC:8499]		
RP-HUHALLTP-094	3	ENSG00000239305	RNF103	ring finger protein 103 [Source:HGNC Symbol;Acc:HGNC:12859]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-094	3	ENSG00000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]		
RP-HUHALLTP-094	3	ENSG00000185475	TMEM179B	transmembrane protein 179B [Source:HGNC Symbol;Acc:HGNC:33744]		
RP-HUHALLTP-095	3	ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]		
RP-HUHALLTP-095	3	ENSG00000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]		
RP-HUHALLTP-095	3	ENSG00000130066	SAT1	spermidine/spermine N1-acetyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10540]		
RP-HUHALLTP-096	3	ENSG00000057019	DCBLD2	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24627]		
RP-HUHALLTP-096	3	ENSG00000154511	DIPK1A	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]		
RP-HUHALLTP-096	3	ENSG00000198743	SLC5A3	solute carrier family 5 member 3 [Source:HGNC Symbol;Acc:HGNC:11038]		
RP-HUHALLTP-097	5	ENSG00000175283	DOLK	dolichol kinase [Source:HGNC Symbol;Acc:HGNC:23406]		
RP-HUHALLTP-097	5	ENSG00000141429	GALNT1	polypeptide N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4123]		
RP-HUHALLTP-097	5	ENSG00000100234	TIMP3	TIMP metallopeptidase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:11822]		
RP-HUHALLTP-097	5	ENSG00000106460	TMEM106B	transmembrane protein 106B [Source:HGNC Symbol;Acc:HGNC:22407]		
RP-HUHALLTP-097	5	ENSG00000146433	TMEM181	transmembrane protein 181 [Source:HGNC Symbol;Acc:HGNC:20958]		
RP-HUHALLTP-098	11	ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]		
RP-HUHALLTP-098	11	ENSG00000090661	CERS4	ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:23747]		
RP-HUHALLTP-098	11	ENSG00000111666	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:17852]		
RP-HUHALLTP-098	11	ENSG00000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]		
RP-HUHALLTP-098	11	ENSG00000162391	FAM151A	family with sequence similarity 151 member A [Source:HGNC Symbol;Acc:HGNC:25032]		
RP-HUHALLTP-098	11	ENSG00000113249	HAVCR1	hepatitis A virus cellular receptor 1 [Source:HGNC Symbol;Acc:HGNC:17866]		
RP-HUHALLTP-098	11	ENSG00000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]		
RP-HUHALLTP-098	11	ENSG00000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]		
RP-HUHALLTP-098	11	ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]		
RP-HUHALLTP-098	11	ENSG00000226549	SCDP1	stearoyl-CoA desaturase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10572]		
RP-HUHALLTP-098	11	ENSG00000104723	TUSC3	tumor suppressor candidate 3 [Source:HGNC Symbol;Acc:HGNC:30242]		
RP-HUHALLTP-099	3	ENSG00000181588	MEX3D	mex-3 RNA binding family member D [Source:HGNC Symbol;Acc:HGNC:16734]		
RP-HUHALLTP-099	3	ENSG00000169871	TRIM56	tripartite motif containing 56 [Source:HGNC Symbol;Acc:HGNC:19028]		
RP-HUHALLTP-099	3	ENSG00000178951	ZBTB7A	zinc finger and BTB domain containing 7A [Source:HGNC Symbol;Acc:HGNC:18078]		
RP-HUHALLTP-100	3	ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]		
RP-HUHALLTP-100	3	ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]		
RP-HUHALLTP-100	3	ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]		
RP-HUHALLTP-101	3	ENSG00000077616	NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2 [Source:HGNC Symbol;Acc:HGNC:14526]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RP-HUHALLTP-101	3	ENSG00000253846	PCDHGA10	protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]		
RP-HUHALLTP-101	3	ENSG00000121316	PLBD1	phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26215]		
RP-HUHALLTP-102	2	ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]		
RP-HUHALLTP-102	2	ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]		
RP-HUHALLTP-103	4	ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]		
RP-HUHALLTP-103	4	ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]		
RP-HUHALLTP-103	4	ENSG00000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]		
RP-HUHALLTP-103	4	ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]		
RP-HUHALLTP-104	5	ENSG00000145192	AHSG	alpha 2-HS glycoprotein [Source:HGNC Symbol;Acc:HGNC:349]		
RP-HUHALLTP-104	5	ENSG00000117335	CD46	CD46 molecule [Source:HGNC Symbol;Acc:HGNC:6953]		
RP-HUHALLTP-104	5	ENSG00000103811	CTSH	cathepsin H [Source:HGNC Symbol;Acc:HGNC:2535]		
RP-HUHALLTP-104	5	ENSG00000198951	NAGA	alpha-N-acetylgalactosaminidase [Source:HGNC Symbol;Acc:HGNC:7631]		
RP-HUHALLTP-104	5	ENSG00000080493	SLC4A4	solute carrier family 4 member 4 [Source:HGNC Symbol;Acc:HGNC:11030]		
RP-HUHALLTP-105	5	ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]		
RP-HUHALLTP-105	5	ENSG00000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]		
RP-HUHALLTP-105	5	ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudogene) [Source:HGNC Symbol;Acc:HGNC:4969]		
RP-HUHALLTP-105	5	ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]		
RP-HUHALLTP-105	5	ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]		
RP-HUHALLTP-106	9	ENSG00000135503	ACVR1B	activin A receptor type 1B [Source:HGNC Symbol;Acc:HGNC:172]		
RP-HUHALLTP-106	9	ENSG00000151388	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif 12 [Source:HGNC Symbol;Acc:HGNC:14605]		
RP-HUHALLTP-106	9	ENSG00000135454	B4GALNT1	beta-1,4-N-acetyl-galactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4117]		
RP-HUHALLTP-106	9	ENSG00000110400	NECTIN1	nectin cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:9706]		
RP-HUHALLTP-106	9	ENSG00000122378	PRXL2A	peroxiredoxin like 2A [Source:HGNC Symbol;Acc:HGNC:28651]		
RP-HUHALLTP-106	9	ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]		
RP-HUHALLTP-106	9	ENSG00000116704	SLC35D1	solute carrier family 35 member D1 [Source:HGNC Symbol;Acc:HGNC:20800]		
RP-HUHALLTP-106	9	ENSG0000006042	TMEM98	transmembrane protein 98 [Source:HGNC Symbol;Acc:HGNC:24529]		
RP-HUHALLTP-106	9	ENSG00000180776	ZDHHC20	zinc finger DHHC-type containing 20 [Source:HGNC Symbol;Acc:HGNC:20749]		
RP-HUHALLTP-107	7	ENSG00000179832	MROH1	maestro heat like repeat family member 1 [Source:HGNC Symbol;Acc:HGNC:26958]		
RP-HUHALLTP-107	7	ENSG00000167566	NCKAP5L	NCK associated protein 5 like [Source:HGNC Symbol;Acc:HGNC:29321]		
RP-HUHALLTP-107	7	ENSG00000131408	NR1H2	nuclear receptor subfamily 1 group H member 2 [Source:HGNC Symbol;Acc:HGNC:7965]		
RP-HUHALLTP-107	7	ENSG00000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-107	7	ENSG00000232956	SNHG15	small nucleolar RNA host gene 15 [Source:HGNC Symbol;Acc:HGNC:27797]		
RP-HUHALLTP-107	7	ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]		
RP-HUHALLTP-107	7	ENSG00000113272	THG1L	tRNA-histidine guanylyltransferase 1 like [Source:HGNC Symbol;Acc:HGNC:26053]		
RP-HUHALLTP-108	6	ENSG00000164291	ARSK	arylsulfatase family member K [Source:HGNC Symbol;Acc:HGNC:25239]		
RP-HUHALLTP-108	6	ENSG00000173852	DPY19L1	dpy-19 like C-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:22205]		
RP-HUHALLTP-108	6	ENSG00000156162	DPY19L4	dpy-19 like 4 [Source:HGNC Symbol;Acc:HGNC:27829]		
RP-HUHALLTP-108	6	ENSG00000151233	GXYLT1	glucoside xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:27482]		
RP-HUHALLTP-108	6	ENSG00000213949	ITGA1	integrin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6134]		
RP-HUHALLTP-108	6	ENSG00000164647	STEAP1	STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:11378]		
RP-HUHALLTP-109	2	ENSG00000139800	ZIC5	Zic family member 5 [Source:HGNC Symbol;Acc:HGNC:20322]		
RP-HUHALLTP-109	2	ENSG00000185453	ZSWIM9	zinc finger SWIM-type containing 9 [Source:HGNC Symbol;Acc:HGNC:34495]		
RP-HUHALLTP-110	4	ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]		
RP-HUHALLTP-110	4	ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]		
RP-HUHALLTP-110	4	ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]		
RP-HUHALLTP-110	4	ENSG00000166012	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:HGNC Symbol;Acc:HGNC:28759]		
RP-HUHALLTP-111	2	ENSG00000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]		
RP-HUHALLTP-111	2	ENSG00000187720	THSD4	thrombospondin type 1 domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25835]		
RP-HUHALLTP-112	2	ENSG00000162430	SELENON	seleoprotein N [Source:HGNC Symbol;Acc:HGNC:15999]		
RP-HUHALLTP-112	2	ENSG00000100321	SYNGR1	synaptogyrin 1 [Source:HGNC Symbol;Acc:HGNC:11498]		
RP-HUHALLTP-113	2	ENSG00000100441	KHYN	KH and NYN domain containing [Source:HGNC Symbol;Acc:HGNC:20166]		
RP-HUHALLTP-113	2	ENSG00000105137	SYDE1	synapse defective Rho GTPase homolog 1 [Source:HGNC Symbol;Acc:HGNC:25824]		
RP-HUHALLTP-114	8	ENSG00000143819	EPHX1	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]		
RP-HUHALLTP-114	8	ENSG00000054983	GALC	galactosylceramidase [Source:HGNC Symbol;Acc:HGNC:4115]		
RP-HUHALLTP-114	8	ENSG00000143815	LBR	lamin B receptor [Source:HGNC Symbol;Acc:HGNC:6518]		
RP-HUHALLTP-114	8	ENSG00000186205	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:HGNC:26189]		
RP-HUHALLTP-114	8	ENSG00000149573	MPZL2	myelin protein zero like 2 [Source:HGNC Symbol;Acc:HGNC:3496]		
RP-HUHALLTP-114	8	ENSG00000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]		
RP-HUHALLTP-114	8	ENSG00000085365	SCAMP1	secretory carrier membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:10563]		
RP-HUHALLTP-114	8	ENSG00000092068	SLC7A8	solute carrier family 7 member 8 [Source:HGNC Symbol;Acc:HGNC:11066]		
RP-HUHALLTP-115	10	ENSG00000253616		novel transcript		
RP-HUHALLTP-115	10	ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RP-HUHALLTP-115	10	ENSG00000128272	ATF4	activating transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:786]		
RP-HUHALLTP-115	10	ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]		
RP-HUHALLTP-115	10	ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]		
RP-HUHALLTP-115	10	ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]		
RP-HUHALLTP-115	10	ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]		
RP-HUHALLTP-115	10	ENSG00000139793	MBNL2	muscleblind like splicing regulator 2 [Source:HGNC Symbol;Acc:HGNC:16746]		
RP-HUHALLTP-115	10	ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]		
RP-HUHALLTP-115	10	ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]		
RP-HUHALLTP-116	2	ENSG00000123358	NR4A1	nuclear receptor subfamily 4 group A member 1 [Source:HGNC Symbol;Acc:HGNC:7980]		
RP-HUHALLTP-116	2	ENSG00000085644	ZNF213	zinc finger protein 213 [Source:HGNC Symbol;Acc:HGNC:13005]		
RP-HUHALLTP-117	2	ENSG00000147799	ARHGAP39	Rho GTPase activating protein 39 [Source:HGNC Symbol;Acc:HGNC:29351]		
RP-HUHALLTP-117	2	ENSG00000166166	TRMT61A	tRNA methyltransferase 61A [Source:HGNC Symbol;Acc:HGNC:23790]		
RP-HUHALLTP-118	2	ENSG00000230733		novel transcript		
RP-HUHALLTP-118	2	ENSG00000142330	CAPN10	calpain 10 [Source:HGNC Symbol;Acc:HGNC:1477]		
RP-HUHALLTP-119	2	ENSG00000163686	ABHD6	abhydrolase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:21398]		
RP-HUHALLTP-119	2	ENSG00000069943	PIGB	phosphatidylinositol glycan anchor biosynthesis class B [Source:HGNC Symbol;Acc:HGNC:8959]		
RP-HUHALLTP-120	6	ENSG00000233588	CYP51A1P2	cytochrome P450 family 51 subfamily A member 1 pseudo-gene 2 [Source:HGNC Symbol;Acc:HGNC:20251]		
RP-HUHALLTP-120	6	ENSG00000185000	DGAT1	diacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2843]		
RP-HUHALLTP-120	6	ENSG00000056736	IL17RB	interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:18015]		
RP-HUHALLTP-120	6	ENSG00000117601	SERPINC1	serpin family C member 1 [Source:HGNC Symbol;Acc:HGNC:775]		
RP-HUHALLTP-120	6	ENSG00000145217	SLC26A1	solute carrier family 26 member 1 [Source:HGNC Symbol;Acc:HGNC:10993]		
RP-HUHALLTP-120	6	ENSG00000167992	VWCE	von Willebrand factor C and EGF domains [Source:HGNC Symbol;Acc:HGNC:26487]		
RP-HUHALLTP-121	8	ENSG00000152990	ADGRA3	adhesion G protein-coupled receptor A3 [Source:HGNC Symbol;Acc:HGNC:13839]		
RP-HUHALLTP-121	8	ENSG00000187546	AGMO	alkylglycerol monooxygenase [Source:HGNC Symbol;Acc:HGNC:33784]		
RP-HUHALLTP-121	8	ENSG00000099219	ERMP1	endoplasmic reticulum metallopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:23703]		
RP-HUHALLTP-121	8	ENSG00000113594	LIFR	LIF receptor alpha [Source:HGNC Symbol;Acc:HGNC:6597]		
RP-HUHALLTP-121	8	ENSG00000156471	PTDSS1	phosphatidylserine synthase 1 [Source:HGNC Symbol;Acc:HGNC:9587]		
RP-HUHALLTP-121	8	ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]		
RP-HUHALLTP-121	8	ENSG00000198246	SLC29A3	solute carrier family 29 member 3 [Source:HGNC Symbol;Acc:HGNC:23096]		
RP-HUHALLTP-121	8	ENSG00000188167	TMPPE	transmembrane protein with metallophosphoesterase domain [Source:HGNC Symbol;Acc:HGNC:33865]		
RP-HUHALLTP-122	2	ENSG00000168096	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29422]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-122	2	ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]		
RP-HUHALLTP-123	3	ENSG00000144278	GALNT13	polypeptide N-acetyl/galactosaminyltransferase 13 [Source:HGNC Symbol;Acc:HGNC:23242]		
RP-HUHALLTP-123	3	ENSG00000111670	GNPTAB	N-acetyl/glicosamine-1-phosphate transferase subunits alpha and beta [Source:HGNC Symbol;Acc:HGNC:29670]		
RP-HUHALLTP-123	3	ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]		
RP-HUHALLTP-124	2	ENSG00000073605	GSDMB	gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]		
RP-HUHALLTP-124	2	ENSG00000110031	LPXN	leupaxin [Source:HGNC Symbol;Acc:HGNC:14061]		
RP-HUHALLTP-125	2	ENSG00000169550	MUC15	mucin 15, cell surface associated [Source:HGNC Symbol;Acc:HGNC:14956]		
RP-HUHALLTP-125	2	ENSG00000163964	PIGX	phosphatidylinositol glycan anchor biosynthesis class X [Source:HGNC Symbol;Acc:HGNC:26046]		
RP-HUHALLTP-126	2	ENSG00000078081	LAMP3	lysosomal associated membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:14582]		
RP-HUHALLTP-126	2	ENSG00000155918	RAET1L	retinoic acid early transcript 1L [Source:HGNC Symbol;Acc:HGNC:16798]		
RP-HUHALLTP-127	3	ENSG00000156140	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]		
RP-HUHALLTP-127	3	ENSG00000197563	PIGN	phosphatidylinositol glycan anchor biosynthesis class N [Source:HGNC Symbol;Acc:HGNC:8967]		
RP-HUHALLTP-127	3	ENSG00000159164	SV2A	synaptic vesicle glycoprotein 2A [Source:HGNC Symbol;Acc:HGNC:20566]		
RP-HUHALLTP-128	5	ENSG00000261227		novel transcript		
RP-HUHALLTP-128	5	ENSG00000272269				
RP-HUHALLTP-128	5	ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]		
RP-HUHALLTP-128	5	ENSG00000197355	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1 [Source:HGNC Symbol;Acc:HGNC:28082]		
RP-HUHALLTP-128	5	ENSG00000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]		
RP-HUHALLTP-129	2	ENSG00000070404	FSTL3	follistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]		
RP-HUHALLTP-129	2	ENSG00000156510	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23302]		
RP-HUHALLTP-130	2	ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]		
RP-HUHALLTP-130	2	ENSG00000142279	WTIP	WT1 interacting protein [Source:HGNC Symbol;Acc:HGNC:20964]		
RP-HUHALLTP-131	2	ENSG00000158669	GPAT4	glycerol-3-phosphate acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:20880]		
RP-HUHALLTP-131	2	ENSG00000147262	GPR119	G protein-coupled receptor 119 [Source:HGNC Symbol;Acc:HGNC:19060]		
RP-HUHALLTP-132	9	ENSG00000143278	F13B	coagulation factor XIII B chain [Source:HGNC Symbol;Acc:HGNC:3534]		
RP-HUHALLTP-132	9	ENSG00000140092	FBLN5	fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]		
RP-HUHALLTP-132	9	ENSG00000139292	LGR5	leucine rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:HGNC:4504]		
RP-HUHALLTP-132	9	ENSG00000163293	NIPAL1	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]		
RP-HUHALLTP-132	9	ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]		
RP-HUHALLTP-132	9	ENSG00000145882	PCYOX1L	prenylcysteine oxidase 1 like [Source:HGNC Symbol;Acc:HGNC:28477]		
RP-HUHALLTP-132	9	ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RP-HUHALLTP-132	9	ENSG00000141485	SLC13A5	solute carrier family 13 member 5 [Source:HGNC Symbol;Acc:HGNC:23089]		
RP-HUHALLTP-132	9	ENSG00000076351	SLC46A1	solute carrier family 46 member 1 [Source:HGNC Symbol;Acc:HGNC:30521]		
RP-HUHALLTP-133	3	ENSG00000135218	CD36	CD36 molecule [Source:HGNC Symbol;Acc:HGNC:1663]		
RP-HUHALLTP-133	3	ENSG00000088386	SLC15A1	solute carrier family 15 member 1 [Source:HGNC Symbol;Acc:HGNC:10920]		
RP-HUHALLTP-133	3	ENSG00000139508	SLC46A3	solute carrier family 46 member 3 [Source:HGNC Symbol;Acc:HGNC:27501]		
RP-HUHALLTP-134	2	ENSG00000111642	CHD4	chromodomain helicase DNA binding protein 4 [Source:HGNC Symbol;Acc:HGNC:1919]		
RP-HUHALLTP-134	2	ENSG00000238227	TMEM250	transmembrane protein 250 [Source:HGNC Symbol;Acc:HGNC:31009]		
RP-HUHALLTP-135	4	ENSG00000271707	ATP1B3P1	ATPase Na ⁺ /K ⁺ transporting subunit beta 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:807]		
RP-HUHALLTP-135	4	ENSG00000114200	BCHE	butyrylcholinesterase [Source:HGNC Symbol;Acc:HGNC:983]		
RP-HUHALLTP-135	4	ENSG00000257017	HP	haptoglobin [Source:HGNC Symbol;Acc:HGNC:5141]		
RP-HUHALLTP-135	4	ENSG00000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]		
RP-HUHALLTP-136	2	ENSG00000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]		
RP-HUHALLTP-136	2	ENSG00000187867	PALM3	paralemmin 3 [Source:HGNC Symbol;Acc:HGNC:33274]		
RP-HUHALLTP-137	5	ENSG00000106665	CLIP2	CAP-Gly domain containing linker protein 2 [Source:HGNC Symbol;Acc:HGNC:2586]		
RP-HUHALLTP-137	5	ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]		
RP-HUHALLTP-137	5	ENSG00000100139	MICALL1	MICAL like 1 [Source:HGNC Symbol;Acc:HGNC:29804]		
RP-HUHALLTP-137	5	ENSG00000157933	SKI	SKI proto-oncogene [Source:HGNC Symbol;Acc:HGNC:10896]		
RP-HUHALLTP-137	5	ENSG00000173898	SPTBN2	spectrin beta, non-erythrocytic 2 [Source:HGNC Symbol;Acc:HGNC:11276]		
RP-HUHALLTP-138	4	ENSG00000103326	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182]		
RP-HUHALLTP-138	4	ENSG00000099814	CEP170B	centrosomal protein 170B [Source:HGNC Symbol;Acc:HGNC:20362]		
RP-HUHALLTP-138	4	ENSG00000177169	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:HGNC:12558]		
RP-HUHALLTP-138	4	ENSG00000102870	ZNF629	zinc finger protein 629 [Source:HGNC Symbol;Acc:HGNC:29008]		
RP-HUHALLTP-139	3	ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]		
RP-HUHALLTP-139	3	ENSG00000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]		
RP-HUHALLTP-139	3	ENSG00000218891	ZNF579	zinc finger protein 579 [Source:HGNC Symbol;Acc:HGNC:26646]		
RP-HUHALLTP-140	3	ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]		
RP-HUHALLTP-140	3	ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]		
RP-HUHALLTP-140	3	ENSG00000102445	RUBCNL	RUN and cysteine rich domain containing beclin 1 interacting protein like [Source:HGNC Symbol;Acc:HGNC:20420]		
RP-HUHALLTP-141	3	ENSG00000161996	WDR90	WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:26960]		
RP-HUHALLTP-141	3	ENSG00000131115	ZNF227	zinc finger protein 227 [Source:HGNC Symbol;Acc:HGNC:13020]		
RP-HUHALLTP-141	3	ENSG00000140548	ZNF710	zinc finger protein 710 [Source:HGNC Symbol;Acc:HGNC:25352]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-142	3	ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]		
RP-HUHALLTP-142	3	ENSG00000187605	TET3	tet methylcytosine dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:28313]		
RP-HUHALLTP-142	3	ENSG00000131323	TRAF3	TNF receptor associated factor 3 [Source:HGNC Symbol;Acc:HGNC:12033]		
RP-HUHALLTP-143	4	ENSG00000155760	FZD7	frizzled class receptor 7 [Source:HGNC Symbol;Acc:HGNC:4045]		
RP-HUHALLTP-143	4	ENSG00000172197	MBOAT1	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]		
RP-HUHALLTP-143	4	ENSG00000141526	SLC16A3	solute carrier family 16 member 3 [Source:HGNC Symbol;Acc:HGNC:10924]		
RP-HUHALLTP-143	4	ENSG00000139173	TMEM117	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]		
RP-HUHALLTP-144	4	ENSG00000283162		STRA6-like (Stra6l) pseudogene		
RP-HUHALLTP-144	4	ENSG00000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]		
RP-HUHALLTP-144	4	ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]		
RP-HUHALLTP-144	4	ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]		
RP-HUHALLTP-145	2	ENSG00000126391	FRMD8	FERM domain containing 8 [Source:HGNC Symbol;Acc:HGNC:25462]		
RP-HUHALLTP-145	2	ENSG00000146676	PURB	purine rich element binding protein B [Source:HGNC Symbol;Acc:HGNC:9702]		
RP-HUHALLTP-146	3	ENSG00000100031	GGT1	gamma-glutamyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4250]		
RP-HUHALLTP-146	3	ENSG00000089057	SLC23A2	solute carrier family 23 member 2 [Source:HGNC Symbol;Acc:HGNC:10973]		
RP-HUHALLTP-146	3	ENSG00000204852	TCTN1	tectonic family member 1 [Source:HGNC Symbol;Acc:HGNC:26113]		
RP-HUHALLTP-147	3	ENSG00000130758	MAP3K10	mitogen-activated protein kinase kinase kinase 10 [Source:HGNC Symbol;Acc:HGNC:6849]		
RP-HUHALLTP-147	3	ENSG00000214279	SCART1	scavenger receptor family member expressed on T cells 1 [Source:HGNC Symbol;Acc:HGNC:32411]		
RP-HUHALLTP-147	3	ENSG00000137877	SPTBN5	spectrin beta, non-erythrocytic 5 [Source:HGNC Symbol;Acc:HGNC:15680]		
RP-HUHALLTP-148	3	ENSG00000134326	CMPK2	cytidine/uridine monophosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:27015]		
RP-HUHALLTP-148	3	ENSG00000133106	EPSTI1	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]		
RP-HUHALLTP-148	3	ENSG00000132274	TRIM22	tripartite motif containing 22 [Source:HGNC Symbol;Acc:HGNC:16379]		
RP-HUHALLTP-149	2	ENSG00000285711				
RP-HUHALLTP-149	2	ENSG00000132109	TRIM21	tripartite motif containing 21 [Source:HGNC Symbol;Acc:HGNC:11312]		
RP-HUHALLTP-150	6	ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]		
RP-HUHALLTP-150	6	ENSG00000126775	ATG14	autophagy related 14 [Source:HGNC Symbol;Acc:HGNC:19962]		
RP-HUHALLTP-150	6	ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]		
RP-HUHALLTP-150	6	ENSG00000166173	LARP6	La ribonucleoprotein domain family member 6 [Source:HGNC Symbol;Acc:HGNC:24012]		
RP-HUHALLTP-150	6	ENSG00000196588	MRTFA	myocardin related transcription factor A [Source:HGNC Symbol;Acc:HGNC:14334]		
RP-HUHALLTP-150	6	ENSG00000197608	ZNF841	zinc finger protein 841 [Source:HGNC Symbol;Acc:HGNC:27611]		
RP-HUHALLTP-151	4	ENSG00000159346	ADIPOR1	adiponectin receptor 1 [Source:HGNC Symbol;Acc:HGNC:24040]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-151	4	ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]		
RP-HUHALLTP-151	4	ENSG00000143434	SEMA6C	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]		
RP-HUHALLTP-151	4	ENSG00000143858	SYT2	synaptotagmin 2 [Source:HGNC Symbol;Acc:HGNC:11510]		
RP-HUHALLTP-152	5	ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]		
RP-HUHALLTP-152	5	ENSG00000130299	GTPBP3	GTP binding protein 3, mitochondrial [Source:HGNC Symbol;Acc:HGNC:14880]		
RP-HUHALLTP-152	5	ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]		
RP-HUHALLTP-152	5	ENSG00000205356	TECPRI	tectonin beta-propeller repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:22214]		
RP-HUHALLTP-152	5	ENSG00000116809	ZBTB17	zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:HGNC:12936]		
RP-HUHALLTP-153	3	ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]		
RP-HUHALLTP-153	3	ENSG00000166261	ZNF202	zinc finger protein 202 [Source:HGNC Symbol;Acc:HGNC:12994]		
RP-HUHALLTP-153	3	ENSG00000186376	ZNF75D	zinc finger protein 75D [Source:HGNC Symbol;Acc:HGNC:13145]		
RP-HUHALLTP-154	7	ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]		
RP-HUHALLTP-154	7	ENSG00000221869	CEBDP	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]		
RP-HUHALLTP-154	7	ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]		
RP-HUHALLTP-154	7	ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]		
RP-HUHALLTP-154	7	ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]		
RP-HUHALLTP-154	7	ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]		
RP-HUHALLTP-154	7	ENSG00000204616	TRIM31	tripartite motif containing 31 [Source:HGNC Symbol;Acc:HGNC:16289]		
RP-HUHALLTP-155	3	ENSG00000230825				
RP-HUHALLTP-155	3	ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]		
RP-HUHALLTP-155	3	ENSG00000047644	WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:HGNC:29237]		
RP-HUHALLTP-156	2	ENSG00000239883	PARGP1	poly(ADP-ribose) glycohydrolase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45008]		
RP-HUHALLTP-156	2	ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]		
RP-HUHALLTP-157	3	ENSG00000250899		novel transcript		
RP-HUHALLTP-157	3	ENSG00000139718	SETD1B	SET domain containing 1B [Source:HGNC Symbol;Acc:HGNC:29187]		
RP-HUHALLTP-157	3	ENSG00000198369	SPRED2	sprouty related EVH1 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17722]		
RP-HUHALLTP-158	6	ENSG00000107249	GLIS3	GLIS family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:28510]		
RP-HUHALLTP-158	6	ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]		
RP-HUHALLTP-158	6	ENSG00000275023	MLLT6	MLLT6, PHD finger containing [Source:HGNC Symbol;Acc:HGNC:7138]		
RP-HUHALLTP-158	6	ENSG00000124222	STX16	syntaxin 16 [Source:HGNC Symbol;Acc:HGNC:11431]		
RP-HUHALLTP-158	6	ENSG00000163945	UVSSA	UV stimulated scaffold protein A [Source:HGNC Symbol;Acc:HGNC:29304]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-158	6	ENSG00000204946	ZNF783	zinc finger family member 783 [Source:HGNC Symbol;Acc:HGNC:27222]		
RP-HUHALLTP-159	4	ENSG00000170571	EMB	embigin [Source:HGNC Symbol;Acc:HGNC:30465]		
RP-HUHALLTP-159	4	ENSG00000161395	PGAP3	post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:HGNC:23719]		
RP-HUHALLTP-159	4	ENSG00000117834	SLC5A9	solute carrier family 5 member 9 [Source:HGNC Symbol;Acc:HGNC:22146]		
RP-HUHALLTP-159	4	ENSG00000162460	TMEM82	transmembrane protein 82 [Source:HGNC Symbol;Acc:HGNC:32350]		
RP-HUHALLTP-160	6	ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]		
RP-HUHALLTP-160	6	ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]		
RP-HUHALLTP-160	6	ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]		
RP-HUHALLTP-160	6	ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]		
RP-HUHALLTP-160	6	ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]		
RP-HUHALLTP-160	6	ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]		
RP-HUHALLTP-161	5	ENSG00000187676	B3GLCT	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]		
RP-HUHALLTP-161	5	ENSG00000163378	EOGT	EGF domain specific O-linked N-acetylglucosamine transferase [Source:HGNC Symbol;Acc:HGNC:28526]		
RP-HUHALLTP-161	5	ENSG00000140093	SERPINA10	serpin family A member 10 [Source:HGNC Symbol;Acc:HGNC:15996]		
RP-HUHALLTP-161	5	ENSG00000142910	TINAGL1	tubulointerstitial nephritis antigen like 1 [Source:HGNC Symbol;Acc:HGNC:19168]		
RP-HUHALLTP-161	5	ENSG00000187824	TMEM220	transmembrane protein 220 [Source:HGNC Symbol;Acc:HGNC:33757]		
RP-HUHALLTP-162	5	ENSG00000151726	ACSL1	acyl-CoA synthetase long chain family member 1 [Source:HGNC Symbol;Acc:HGNC:3569]		
RP-HUHALLTP-162	5	ENSG00000067057	PFKP	phosphofructokinase, platelet [Source:HGNC Symbol;Acc:HGNC:8878]		
RP-HUHALLTP-162	5	ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]		
RP-HUHALLTP-162	5	ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]		
RP-HUHALLTP-162	5	ENSG00000158246	TENT5B	terminal nucleotidyltransferase 5B [Source:HGNC Symbol;Acc:HGNC:28273]		
RP-HUHALLTP-163	6	ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]		
RP-HUHALLTP-163	6	ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]		
RP-HUHALLTP-163	6	ENSG00000163661	PTX3	pentraxin 3 [Source:HGNC Symbol;Acc:HGNC:9692]		
RP-HUHALLTP-163	6	ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]		
RP-HUHALLTP-163	6	ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]		
RP-HUHALLTP-163	6	ENSG00000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]		
RP-HUHALLTP-164	4	ENSG00000251136				
RP-HUHALLTP-164	4	ENSG00000007545	CRAMP1	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]		
RP-HUHALLTP-164	4	ENSG00000251562	MALAT1	metastasis associated lung adenocarcinoma transcript 1 [Source:HGNC Symbol;Acc:HGNC:29665]		
RP-HUHALLTP-164	4	ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC	FC
					CYT	ER
RP-HUHALLTP-165	4	ENSG00000114948	ADAM23	ADAM metallopeptidase domain 23 [Source:HGNC Symbol;Acc:HGNC:202]		
RP-HUHALLTP-165	4	ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]		
RP-HUHALLTP-165	4	ENSG00000154864	PIEZ02	piezo type mechanosensitive ion channel component 2 [Source:HGNC Symbol;Acc:HGNC:26270]		
RP-HUHALLTP-165	4	ENSG00000180694	TMEM64	transmembrane protein 64 [Source:HGNC Symbol;Acc:HGNC:25441]		
RP-HUHALLTP-166	4	ENSG00000196123	KIAA0895L	KIAA0895 like [Source:HGNC Symbol;Acc:HGNC:34408]		
RP-HUHALLTP-166	4	ENSG00000074590	NUAK1	NUAK family kinase 1 [Source:HGNC Symbol;Acc:HGNC:14311]		
RP-HUHALLTP-166	4	ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta [Source:HGNC Symbol;Acc:HGNC:9310]		
RP-HUHALLTP-166	4	ENSG00000162065	TBC1D24	TBC1 domain family member 24 [Source:HGNC Symbol;Acc:HGNC:29203]		
RP-HUHALLTP-167	3	ENSG00000141337	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102]		
RP-HUHALLTP-167	3	ENSG00000167080	B4GALNT2	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:24136]		
RP-HUHALLTP-167	3	ENSG00000170545	SMAGP	small cell adhesion glycoprotein [Source:HGNC Symbol;Acc:HGNC:26918]		
RP-HUHALLTP-168	3	ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]		
RP-HUHALLTP-168	3	ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]		
RP-HUHALLTP-168	3	ENSG00000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]		
RP-HUHALLTP-169	2	ENSG00000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]		
RP-HUHALLTP-169	2	ENSG00000119703	ZC2HC1C	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]		
RP-HUHALLTP-170	3	ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:2646]		
RP-HUHALLTP-170	3	ENSG00000270170	NCBP2-AS2	NCBP2 antisense RNA 2 (head to head) [Source:HGNC Symbol;Acc:HGNC:25121]		
RP-HUHALLTP-170	3	ENSG00000137103	TMEM8B	transmembrane protein 8B [Source:HGNC Symbol;Acc:HGNC:21427]		
RP-HUHALLTP-171	7	ENSG00000226405		hydroxysteroid (17-beta) dehydrogenase 12 (HSD17B12) pseudogene		
RP-HUHALLTP-171	7	ENSG00000073734	ABCB11	ATP binding cassette subfamily B member 11 [Source:HGNC Symbol;Acc:HGNC:42]		
RP-HUHALLTP-171	7	ENSG00000251568	ALG3P1	ALG3, alpha-1,3-mannosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45159]		
RP-HUHALLTP-171	7	ENSG00000080910	CFHR2	complement factor H related 2 [Source:HGNC Symbol;Acc:HGNC:4890]		
RP-HUHALLTP-171	7	ENSG00000197006	METTL9	methyltransferase like 9 [Source:HGNC Symbol;Acc:HGNC:24586]		
RP-HUHALLTP-171	7	ENSG00000253598	SLC10A5	solute carrier family 10 member 5 [Source:HGNC Symbol;Acc:HGNC:22981]		
RP-HUHALLTP-171	7	ENSG00000232380	ZDHHC20P4	zinc finger DHHC-type containing 20 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:39776]		
RP-HUHALLTP-172	6	ENSG00000230779		ribosomal protein, large, P0 (RPLP0) pseudogene		
RP-HUHALLTP-172	6	ENSG00000227942	FRMD8P1	FERM domain containing 8 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:24690]		
RP-HUHALLTP-172	6	ENSG00000133328	HRASLS2	HRAS like suppressor 2 [Source:HGNC Symbol;Acc:HGNC:17824]		
RP-HUHALLTP-172	6	ENSG00000110944	IL23A	interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:15488]		
RP-HUHALLTP-172	6	ENSG00000232624	LINC01517	long intergenic non-protein coding RNA 1517 [Source:HGNC Symbol;Acc:HGNC:51212]		

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description					Log ₂ CYT	Log ₂ FC
									ER	
RP-HUHALLTP-172	6	ENSG00000219532	SELENOKP2	selenoprotein K pseudogene	2	[Source:HGNC Symbol;Acc:HGNC:53725]				
RP-HUHALLTP-173	3	ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta		[Source:HGNC Symbol;Acc:HGNC:6004]				
RP-HUHALLTP-173	3	ENSG00000177082	WDR73	WD repeat domain	73	[Source:HGNC Symbol;Acc:HGNC:25928]				
RP-HUHALLTP-173	3	ENSG00000198393	ZNF26	zinc finger protein	26	[Source:HGNC Symbol;Acc:HGNC:13053]				
RP-HUHALLTP-174	4	ENSG00000135776	ABCB10	ATP binding cassette subfamily B member 10		[Source:HGNC Symbol;Acc:HGNC:41]				
RP-HUHALLTP-174	4	ENSG00000163626	COX18	cytochrome c oxidase assembly factor COX18		[Source:HGNC Symbol;Acc:HGNC:26801]				
RP-HUHALLTP-174	4	ENSG00000006007	GDE1	glycerophosphodiester phosphodiesterase 1		[Source:HGNC Symbol;Acc:HGNC:29644]				
RP-HUHALLTP-174	4	ENSG00000171307	ZDHHC16	zinc finger DHHC-type containing 16		[Source:HGNC Symbol;Acc:HGNC:20714]				
RP-HUHALLTP-175	7	ENSG00000267478		nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2) pseudogene						
RP-HUHALLTP-175	7	ENSG00000087085	ACHE	acetylcholinesterase (Cartwright blood group)		[Source:HGNC Symbol;Acc:HGNC:108]				
RP-HUHALLTP-175	7	ENSG00000181026	AEN	apoptosis enhancing nuclease		[Source:HGNC Symbol;Acc:HGNC:25722]				
RP-HUHALLTP-175	7	ENSG00000105298	CACTIN	cactin, spliceosome C complex subunit		[Source:HGNC Symbol;Acc:HGNC:29938]				
RP-HUHALLTP-175	7	ENSG00000168280	KIF5C	kinesin family member 5C		[Source:HGNC Symbol;Acc:HGNC:6325]				
RP-HUHALLTP-175	7	ENSG00000059728	MXD1	MAX dimerization protein 1		[Source:HGNC Symbol;Acc:HGNC:6761]				
RP-HUHALLTP-175	7	ENSG00000198496	NBR2	neighbor of BRCA1 lncRNA	2	[Source:HGNC Symbol;Acc:HGNC:20691]				
RP-HUHALLTP-176	12	ENSG00000110237	ARHGEF17	Rho guanine nucleotide exchange factor 17		[Source:HGNC Symbol;Acc:HGNC:21726]				
RP-HUHALLTP-176	12	ENSG00000112787	FBRSL1	fibrosin like 1		[Source:HGNC Symbol;Acc:HGNC:29308]				
RP-HUHALLTP-176	12	ENSG00000061273	HDAC7	histone deacetylase	7	[Source:HGNC Symbol;Acc:HGNC:14067]				
RP-HUHALLTP-176	12	ENSG00000088899	LZTS3	leucine zipper tumor suppressor family member 3		[Source:HGNC Symbol;Acc:HGNC:30139]				
RP-HUHALLTP-176	12	ENSG0000006062	MAP3K14	mitogen-activated protein kinase kinase kinase 14		[Source:HGNC Symbol;Acc:HGNC:6853]				
RP-HUHALLTP-176	12	ENSG00000110697	PITPNM1	phosphatidylinositol transfer protein membrane associated 1		[Source:HGNC Symbol;Acc:HGNC:9003]				
RP-HUHALLTP-176	12	ENSG0000008710	PKD1	polycystin 1, transient receptor potential channel interacting		[Source:HGNC Symbol;Acc:HGNC:9008]				
RP-HUHALLTP-176	12	ENSG00000235408	SNORA71B	small nucleolar RNA, H/ACA box 71B		[Source:HGNC Symbol;Acc:HGNC:10233]				
RP-HUHALLTP-176	12	ENSG00000205903	ZNF316	zinc finger protein	316	[Source:HGNC Symbol;Acc:HGNC:13843]				
RP-HUHALLTP-176	12	ENSG00000196700	ZNF512B	zinc finger protein	512B	[Source:HGNC Symbol;Acc:HGNC:29212]				
RP-HUHALLTP-176	12	ENSG00000167395	ZNF646	zinc finger protein	646	[Source:HGNC Symbol;Acc:HGNC:29004]				
RP-HUHALLTP-176	12	ENSG00000171161	ZNF672	zinc finger protein	672	[Source:HGNC Symbol;Acc:HGNC:26179]				
RP-HUHALLTP-177	7	ENSG00000278099								
RP-HUHALLTP-177	7	ENSG0000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2		[Source:HGNC Symbol;Acc:HGNC:16924]				
RP-HUHALLTP-177	7	ENSG00000212609	RNU1-139P	RNA, U1 small nuclear 139, pseudogene		[Source:HGNC Symbol;Acc:HGNC:48481]				
RP-HUHALLTP-177	7	ENSG00000201910	RNU1-140P	RNA, U1 small nuclear 140, pseudogene		[Source:HGNC Symbol;Acc:HGNC:48482]				

Cluster ID	Cluster Size	Gene ID	Gene Name	Gene Description	<i>Log₂</i>	<i>Log₂</i>
					FC CYT	FC ER
RP-HUHALLTP-177	7	ENSG00000200197	RNU1-21P	RNA, U1 small nuclear 21, pseudogene [Source:HGNC Symbol;Acc:HGNC:41947]		
RP-HUHALLTP-177	7	ENSG00000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]		
RP-HUHALLTP-177	7	ENSG00000207349	RNVU1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]		
RP-HUHALLTP-178	3	ENSG00000233225		single stranded DNA binding protein 3 (SSBP3) pseudogene		
RP-HUHALLTP-178	3	ENSG00000218502	H2AFZP3	H2A histone family member Z pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:38013]		
RP-HUHALLTP-178	3	ENSG00000227425	MRPS21P2	mitochondrial ribosomal protein S21 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:29749]		
RP-HUHALLTP-179	5	ENSG00000176155	CCDC57	coiled-coil domain containing 57 [Source:HGNC Symbol;Acc:HGNC:27564]		
RP-HUHALLTP-179	5	ENSG00000197774	EME2	essential meiotic structure-specific endonuclease subunit 2 [Source:HGNC Symbol;Acc:HGNC:27289]		
RP-HUHALLTP-179	5	ENSG00000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]		
RP-HUHALLTP-179	5	ENSG00000126603	GLIS2	GLIS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:29450]		
RP-HUHALLTP-179	5	ENSG00000207280	SNORD20	small nucleolar RNA, C/D box 20 [Source:HGNC Symbol;Acc:HGNC:10143]		
RP-HUHALLTP-180	4	ENSG00000253223		PRP3 pre-mRNA processing factor 3 homolog (S. cerevisiae) (PRPF3) pseudogene		
RP-HUHALLTP-180	4	ENSG00000257704	INAFM1	InaF motif containing 1 [Source:HGNC Symbol;Acc:HGNC:27406]		
RP-HUHALLTP-180	4	ENSG00000267530	LINC01836	long intergenic non-protein coding RNA 1836 [Source:HGNC Symbol;Acc:HGNC:52652]		
RP-HUHALLTP-180	4	ENSG00000105497	ZNF175	zinc finger protein 175 [Source:HGNC Symbol;Acc:HGNC:12964]		
RP-HUHALLTP-181	3	ENSG00000200169	RNU5D-1	RNA, U5D small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10214]		
RP-HUHALLTP-181	3	ENSG00000154997	SEPT14	septin 14 [Source:HGNC Symbol;Acc:HGNC:33280]		
RP-HUHALLTP-181	3	ENSG00000228551	SNRPGP9	small nuclear ribonucleoprotein polypeptide G pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:39328]		
RP-HUHALLTP-182	5	ENSG00000235119		novel transcript		
RP-HUHALLTP-182	5	ENSG00000257335	MGAM	maltase-glucoamylase [Source:HGNC Symbol;Acc:HGNC:7043]		
RP-HUHALLTP-182	5	ENSG00000243406	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:39253]		
RP-HUHALLTP-182	5	ENSG00000131669	NINJ1	ninjurin 1 [Source:HGNC Symbol;Acc:HGNC:7824]		
RP-HUHALLTP-182	5	ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]		

Table 52: Co-expressed gene clusters (RP, Huh7, All post-treatment time points)

Category Type	Categories	Distinct	Median
		#Genes In Sets	#Genes Per Set
MSigDB Biological Processes	4653	15411	34
MSigDB Cellular Components	584	12116	43
MSigDB Immunological Signatures	4872	19193	199
MSigDB KEGG Pathways	186	5221	52
MSigDB Molecular Functions	929	14393	30
MSigDB Reactome Pathways	674	5790	27

Category	Type	Categories	Distinct #Genes In Sets	Median #Genes Per Set
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Table 53: Overview of gene sets used for the enrichment analysis (RP). Genes within gene sets are filtered to reflect only those that exist in filtered Ensembl version 95 annotations obtained using biomaRt.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	12	3 (25)	3 (25)	0 (0)	0.158	<0.0001	0.0388
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY IN RESPON...	32	4 (12.5)	4 (12.5)	0 (0)	0.105	<0.0001	0.0388
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	23	3 (13)	3 (13)	0 (0)	0.100	<0.0001	0.0388
GO REGULATION OF DNA TEMPLATED TRANSCRIPTION IN RE...	67	4 (6)	4 (6)	0 (0)	0.055	<0.0001	0.0388
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY	153	5 (3.3)	5 (3.3)	0 (0)	0.032	<0.0001	0.0388
GO RESPONSE TO TOPOLOGICALLY INCORRECT PROTEIN	163	4 (2.5)	4 (2.5)	0 (0)	0.024	<0.0001	0.0388
GO RESPONSE TO ENDOPLASMIC RETICULUM STRESS	233	5 (2.1)	5 (2.1)	0 (0)	0.021	<0.0001	0.0388
GO APOPTOTIC SIGNALING PATHWAY	291	5 (1.7)	5 (1.7)	0 (0)	0.017	<0.0001	0.0388
GO CELL DEATH	1002	5 (0.5)	5 (0.5)	0 (0)	0.005	<0.0001	0.0388
GO NEGATIVE REGULATION OF GENE EXPRESSION	1492	7 (0.5)	7 (0.5)	0 (0)	0.005	<0.0001	0.0388
GO NEGATIVE REGULATION OF NITROGEN COMPOUND METABO...	1516	7 (0.5)	7 (0.5)	0 (0)	0.005	<0.0001	0.0388
GO RESPONSE TO EXTERNAL STIMULUS	1797	7 (0.4)	7 (0.4)	0 (0)	0.004	<0.0001	0.0388
GO NEGATIVE REGULATION OF PEPTIDYL THREONINE PHOSP...	15	2 (13.3)	2 (13.3)	0 (0)	0.087	0.0002	0.0582
GO CELLULAR RESPONSE TO TOPOLOGICALLY INCORRECT PR...	122	3 (2.5)	3 (2.5)	0 (0)	0.023	0.0002	0.0582
GO NEGATIVE REGULATION OF RESPONSE TO STIMULUS	1364	6 (0.4)	6 (0.4)	0 (0)	0.004	0.0002	0.0582
GO REGULATION OF CELL DEATH	1473	6 (0.4)	6 (0.4)	0 (0)	0.004	0.0002	0.0582
GO PERK MEDIATED UNFOLDED PROTEIN RESPONSE	12	2 (16.7)	2 (16.7)	0 (0)	0.100	0.0003	0.0665
GO REGULATION OF PEPTIDYL THREONINE PHOSPHORYLATI...	37	2 (5.4)	2 (5.4)	0 (0)	0.044	0.0003	0.0665
GO RESPONSE TO BIOTIC STIMULUS	862	5 (0.6)	5 (0.6)	0 (0)	0.006	0.0003	0.0665
GO CELLULAR RESPONSE TO STRESS	1560	6 (0.4)	6 (0.4)	0 (0)	0.004	0.0003	0.0665
GO POSITIVE REGULATION OF GENE EXPRESSION	1732	6 (0.3)	6 (0.3)	0 (0)	0.004	0.0003	0.0665
GO ER NUCLEUS SIGNALING PATHWAY	34	2 (5.9)	2 (5.9)	0 (0)	0.048	0.0005	0.0775
GO NEGATIVE REGULATION OF PROTEIN MATURATION	35	2 (5.7)	2 (5.7)	0 (0)	0.046	0.0005	0.0775
GO NEGATIVE REGULATION OF PROTEIN PROCESSING	35	2 (5.7)	2 (5.7)	0 (0)	0.046	0.0005	0.0775
GO RESPONSE TO STARVATION	154	3 (1.9)	3 (1.9)	0 (0)	0.019	0.0004	0.0775
GO REGULATION OF NEURON DEATH	253	3 (1.2)	3 (1.2)	0 (0)	0.011	0.0005	0.0775
GO NEGATIVE REGULATION OF CELL COMMUNICATION	1197	5 (0.4)	5 (0.4)	0 (0)	0.004	0.0005	0.0775
GO INTRACELLULAR SIGNAL TRANSDUCTION	1568	6 (0.4)	6 (0.4)	0 (0)	0.004	0.0004	0.0775
GO POSITIVE REGULATION OF BIOSYNTHETIC PROCESS	1805	6 (0.3)	6 (0.3)	0 (0)	0.003	0.0005	0.0775
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	6 (0.3)	6 (0.3)	0 (0)	0.003	0.0005	0.0775

Table 54: Enriched MSigDB Biological Processes (RP, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE2770 UNTREATED VS IL12 TREATED ACT CD4 TCELL 6H...	200	6 (3)	6 (3)	0 (0)	0.029	<0.0001	0.0221
GSE37605 TREG VS TCONV NOD FOXP3 FUSION GFP UP	139	4 (2.9)	4 (2.9)	0 (0)	0.028	<0.0001	0.0221
GSE36891 POLYIC TLR3 VS PAM TLR2 STIM PERITONEAL M...	146	4 (2.7)	4 (2.7)	0 (0)	0.026	<0.0001	0.0221
GSE36891 UNSTIM VS POLYIC TLR3 STIM PERITONEAL MAC...	146	4 (2.7)	4 (2.7)	0 (0)	0.026	<0.0001	0.0221
GSE37605 FOXP3 FUSION GFP VS IRES GFP TREG C57BL6 ...	182	4 (2.2)	4 (2.2)	0 (0)	0.021	<0.0001	0.0221
GSE9988 ANTI TREM1 VS CTRL TREATED MONOCYTES UP	192	4 (2.1)	4 (2.1)	0 (0)	0.020	<0.0001	0.0221
GSE2770 TGFB AND IL4 VS IL12 TREATED ACT CD4 TCELL...	194	4 (2.1)	4 (2.1)	0 (0)	0.020	<0.0001	0.0221
GSE13306 RA VS UNTREATED MEM CD4 TCELL DN	200	4 (2)	4 (2)	0 (0)	0.019	<0.0001	0.0221
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	4 (2)	4 (2)	0 (0)	0.019	<0.0001	0.0221
GSE19401 NAIVE VS IMMUNIZED MOUSE PLN FOLLICULAR D...	200	4 (2)	4 (2)	0 (0)	0.019	<0.0001	0.0221

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE37301 HEMATOPOIETIC STEM CELL VS RAG2 KO NK CEL...	180	3 (1.7)	3 (1.7)	0 (0)	0.016	<0.0001	0.0221
GSE9988 LOW LPS VS ANTI TREM1 AND LPS MONOCYTE DN	193	3 (1.6)	3 (1.6)	0 (0)	0.015	<0.0001	0.0221
GSE14769 UNSTIM VS 20MIN LPS BMDM DN	199	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE15324 ELF4 KO VS WT NAIVE CD8 TCELL DN	198	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE17721 CTRL VS CPG 12H BMDC DN	199	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE23925 LIGHT ZONE VS NAIVE BCELL UP	199	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE22196 HEALTHY VS OBESE MOUSE SKIN GAMMADELTA TC...	200	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE9006 TYPE 1 DIABETES AT DX VS 4MONTH POST DX PB...	200	3 (1.5)	3 (1.5)	0 (0)	0.015	<0.0001	0.0221
GSE10240 IL22 VS IL22 AND IL17 STIM PRIMARY BRONCH...	201	3 (1.5)	3 (1.5)	0 (0)	0.014	<0.0001	0.0221
GSE19198 CTRL VS IL21 TREATED TCELL 24H UP	202	3 (1.5)	3 (1.5)	0 (0)	0.014	<0.0001	0.0221
GSE9006 HEALTHY VS TYPE 1 DIABETES PBMC 4MONTH POS...	201	3 (1.5)	3 (1.5)	0 (0)	0.014	<0.0001	0.0221
GSE37605 C57BL6 VS NOD FOXP3 FUSION GFP TREG DN	187	3 (1.6)	3 (1.6)	0 (0)	0.015	0.0002	0.0287
GSE9988 LPS VS LPS AND ANTI TREM1 MONOCYTE DN	191	3 (1.6)	3 (1.6)	0 (0)	0.015	0.0002	0.0287
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	3 (1.6)	3 (1.6)	0 (0)	0.015	0.0002	0.0287
GSE2770 IL4 ACT VS ACT CD4 TCELL 2H DN	198	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE37416 CTRL VS 12H F TULARENSIS LVS NEUTROPHIL D...	198	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE411 UNSTIM VS 100MIN IL6 STIM SOCS3 KO MACROPHAG...	199	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE22935 WT VS MYD88 KO MACROPHAGE 12H MBOVIS BCG ...	200	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE29949 MICROGLIA VS DC BRAIN UP	200	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE34392 ST2 KO VS WT DAY8 LCMV EFFECTOR CD8 TCELL...	200	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE411 UNSTIM VS 100MIN IL6 STIM MACROPHAGE UP	200	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE6674 CPG VS CPG AND ANTI IGM STIM BCELL DN	200	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0002	0.0287
GSE42021 TREG PLN VS CD24HI TREG THYMUS UP	201	3 (1.5)	3 (1.5)	0 (0)	0.014	0.0002	0.0287
GSE7219 UNSTIM VS LPS AND ANTI CD40 STIM NIK NFkB2...	188	3 (1.6)	3 (1.6)	0 (0)	0.015	0.0003	0.0375
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	3 (1.6)	3 (1.6)	0 (0)	0.015	0.0003	0.0375
GSE25123 CTRL VS ROSIGLITAZONE STIM MACROPHAGE UP	198	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0003	0.0375
GSE26156 DOUBLE POSITIVE VS CD4 SINGLE POSITIVE TH...	199	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0003	0.0375
GSE25085 FETAL BM VS ADULT BM SP4 THYMIC IMPLANT U...	200	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0003	0.0375
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	3 (1.6)	3 (1.6)	0 (0)	0.015	0.0004	0.0475
GSE17721 CPG VS GARDIQUIMOD 24H BMDC UP	201	3 (1.5)	3 (1.5)	0 (0)	0.014	0.0004	0.0475
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	3 (1.5)	3 (1.5)	0 (0)	0.015	0.0006	0.0696

Table 55: Enriched MSigDB Immunological Signatures (RP, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO TRANSCRIPTION COREPRESSOR ACTIVITY	219	3 (1.4)	3 (1.4)	0 (0)	0.013	<0.0001	0.0232
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMER...A...	315	4 (1.3)	4 (1.3)	0 (0)	0.013	<0.0001	0.0232
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	4 (1.2)	4 (1.2)	0 (0)	0.012	<0.0001	0.0232
GO CORE PROMOTER PROXIMAL REGION DNA BINDING	371	4 (1.1)	4 (1.1)	0 (0)	0.011	<0.0001	0.0232
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMER...A...	226	3 (1.3)	3 (1.3)	0 (0)	0.013	0.0004	0.0743

Table 56: Enriched MSigDB Molecular Functions (RP, Huh7, cytosol, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO DEFENSE RESPONSE TO VIRUS	164	22 (13.4)	22 (13.4)	0 (0)	0.054	<0.0001	0.0076
GO RESPONSE TO VIRUS	247	24 (9.7)	24 (9.7)	0 (0)	0.049	<0.0001	0.0076
GO RESPONSE TO ENDOPLASMIC RETICULUM STRESS	233	21 (9)	20 (8.6)	1 (0.4)	0.044	<0.0001	0.0076
GO RESPONSE TO CYTOKINE	711	38 (5.3)	36 (5.1)	2 (0.3)	0.040	<0.0001	0.0076
GO RESPONSE TO BIOTIC STIMULUS	862	42 (4.9)	40 (4.6)	2 (0.2)	0.039	<0.0001	0.0076
GO IMMUNE EFFECTOR PROCESS	455	26 (5.7)	26 (5.7)	0 (0)	0.037	<0.0001	0.0076
GO RESPONSE TO TYPE I INTERFERON	67	12 (17.9)	12 (17.9)	0 (0)	0.037	<0.0001	0.0076
GO INNATE IMMUNE RESPONSE	591	30 (5.1)	30 (5.1)	0 (0)	0.036	<0.0001	0.0076
GO CELLULAR RESPONSE TO CYTOKINE STIMULUS	603	30 (5)	28 (4.6)	2 (0.3)	0.036	<0.0001	0.0076
GO REGULATION OF TYPE I INTERFERON PRODUCTION	111	13 (11.7)	13 (11.7)	0 (0)	0.036	<0.0001	0.0076
GO DEFENSE RESPONSE TO OTHER ORGANISM	483	25 (5.2)	24 (5)	1 (0.2)	0.035	<0.0001	0.0076
GO RESPONSE TO TOPOLOGICALLY INCORRECT PROTEIN	163	14 (8.6)	14 (8.6)	0 (0)	0.034	<0.0001	0.0076
GO CYTOKINE MEDIATED SIGNALING PATHWAY	449	23 (5.1)	22 (4.9)	1 (0.2)	0.033	<0.0001	0.0076
GO NEGATIVE REGULATION OF MULTI ORGANISM PROCESS	151	13 (8.6)	13 (8.6)	0 (0)	0.032	<0.0001	0.0076
GO RESPONSE TO NITROGEN COMPOUND	862	35 (4.1)	33 (3.8)	2 (0.2)	0.032	<0.0001	0.0076
GO NEGATIVE REGULATION OF VIRAL PROCESS	89	11 (12.4)	11 (12.4)	0 (0)	0.032	<0.0001	0.0076
GO CELLULAR RESPONSE TO TOPOLOGICALLY INCORRECT PR...	122	12 (9.8)	12 (9.8)	0 (0)	0.032	<0.0001	0.0076
GO CELL DEATH	1002	39 (3.9)	38 (3.8)	1 (0.1)	0.032	<0.0001	0.0076
GO IMMUNE RESPONSE	1057	40 (3.8)	40 (3.8)	0 (0)	0.031	<0.0001	0.0076
GO REGULATION OF CYTOKINE PRODUCTION	560	25 (4.5)	25 (4.5)	0 (0)	0.031	<0.0001	0.0076
GO DEFENSE RESPONSE	1200	44 (3.7)	43 (3.6)	1 (0.1)	0.031	<0.0001	0.0076
GO REGULATION OF VASCULATURE DEVELOPMENT	233	15 (6.4)	15 (6.4)	0 (0)	0.031	<0.0001	0.0076
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	1004	38 (3.8)	37 (3.7)	1 (0.1)	0.031	<0.0001	0.0076
GO NEGATIVE REGULATION OF CYTOKINE PRODUCTION	209	14 (6.7)	14 (6.7)	0 (0)	0.030	<0.0001	0.0076
GO NEGATIVE REGULATION OF TYPE I INTERFERON PRODUC...	40	9 (22.5)	9 (22.5)	0 (0)	0.030	<0.0001	0.0076
GO REGULATION OF VIRAL GENOME REPLICATION	75	10 (13.3)	10 (13.3)	0 (0)	0.030	<0.0001	0.0076
GO RESPONSE TO HYDROGEN PEROXIDE	109	11 (10.1)	10 (9.2)	1 (0.9)	0.030	<0.0001	0.0076
GO RESPONSE TO EXTERNAL STIMULUS	1797	60 (3.3)	58 (3.2)	2 (0.1)	0.030	<0.0001	0.0076
GO RESPONSE TO MOLECULE OF BACTERIAL ORIGIN	320	17 (5.3)	16 (5)	1 (0.3)	0.030	<0.0001	0.0076
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	61 (3.3)	58 (3.1)	3 (0.2)	0.030	<0.0001	0.0076
GO REGULATION OF INNATE IMMUNE RESPONSE	357	18 (5)	17 (4.8)	1 (0.3)	0.030	<0.0001	0.0076
GO CELLULAR RESPONSE TO STRESS	1560	52 (3.3)	46 (2.9)	6 (0.4)	0.029	<0.0001	0.0076
GO NEGATIVE REGULATION OF VIRAL GENOME REPLICATION	49	9 (18.4)	9 (18.4)	0 (0)	0.029	<0.0001	0.0076
GO RESPONSE TO PEPTIDE	406	19 (4.7)	17 (4.2)	2 (0.5)	0.029	<0.0001	0.0076
GO RESPONSE TO REACTIVE OXYGEN SPECIES	192	13 (6.8)	12 (6.2)	1 (0.5)	0.029	<0.0001	0.0076
GO REGULATION OF CELL DEATH	1473	49 (3.3)	46 (3.1)	3 (0.2)	0.029	<0.0001	0.0076
GO RESPONSE TO OXYGEN CONTAINING COMPOUND	1383	45 (3.3)	41 (3)	4 (0.3)	0.028	<0.0001	0.0076
GO APOPTOTIC SIGNALING PATHWAY	291	15 (5.2)	15 (5.2)	0 (0)	0.028	<0.0001	0.0076
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY IN RESPON...	32	8 (25)	8 (25)	0 (0)	0.028	<0.0001	0.0076
GO INTRACELLULAR SIGNAL TRANSDUCTION	1568	49 (3.1)	47 (3)	2 (0.1)	0.027	<0.0001	0.0076
GO REGULATION OF INTRACELLULAR SIGNAL TRANSDUCTION	1659	51 (3.1)	49 (3)	2 (0.1)	0.027	<0.0001	0.0076
GO IMMUNE SYSTEM PROCESS	1936	58 (3)	56 (2.9)	2 (0.1)	0.027	<0.0001	0.0076
GO NEGATIVE REGULATION OF PHOSPHORYLATION	423	18 (4.3)	18 (4.3)	0 (0)	0.027	<0.0001	0.0076
GO POSITIVE REGULATION OF GENE EXPRESSION	1732	52 (3)	51 (2.9)	1 (0.1)	0.027	<0.0001	0.0076
GO REGULATION OF MULTI ORGANISM PROCESS	470	19 (4)	18 (3.8)	1 (0.2)	0.026	<0.0001	0.0076
GO POSITIVE REGULATION OF BIOSYNTHETIC PROCESS	1805	53 (2.9)	51 (2.8)	2 (0.1)	0.026	<0.0001	0.0076
GO REGULATION OF SYMBIOSIS ENCOMPASSING MUTUALISM ...	205	12 (5.9)	12 (5.9)	0 (0)	0.026	<0.0001	0.0076

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO RESPONSE TO ORGANIC CYCLIC COMPOUND	918	30 (3.3)	29 (3.2)	1 (0.1)	0.026	<0.0001	0.0076
GO POSITIVE REGULATION OF CELL DEATH	606	22 (3.6)	20 (3.3)	2 (0.3)	0.026	<0.0001	0.0076
GO RESPONSE TO RADIATION	415	17 (4.1)	17 (4.1)	0 (0)	0.026	<0.0001	0.0076

Table 57: Enriched MSigDB Biological Processes (RP, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO TRANSCRIPTION FACTOR COMPLEX	298	13 (4.4)	13 (4.4)	0 (0)	0.024	<0.0001	0.0584

Table 58: Enriched MSigDB Cellular Components (RP, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	38 (19.9)	38 (19.9)	0 (0)	0.090	<0.0001	0.0015
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	33 (16.5)	33 (16.5)	0 (0)	0.076	<0.0001	0.0015
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	33 (16.4)	33 (16.4)	0 (0)	0.076	<0.0001	0.0015
GSE36891 POLYIC TLR3 VS PAM TLR2 STIM PERITONEAL M...	146	29 (19.9)	29 (19.9)	0 (0)	0.075	<0.0001	0.0015
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	31 (16.5)	30 (16)	1 (0.5)	0.073	<0.0001	0.0015
GSE2706 UNSTIM VS 2H LPS DC DN	192	31 (16.1)	31 (16.1)	0 (0)	0.072	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	31 (15.7)	31 (15.7)	0 (0)	0.071	<0.0001	0.0015
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	31 (15.6)	30 (15.1)	1 (0.5)	0.071	<0.0001	0.0015
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	30 (15.9)	30 (15.9)	0 (0)	0.070	<0.0001	0.0015
GSE14000 UNSTIM VS 4H LPS DC DN	199	30 (15.1)	30 (15.1)	0 (0)	0.069	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 14H DN	184	29 (15.8)	29 (15.8)	0 (0)	0.069	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 4H DN	185	29 (15.7)	29 (15.7)	0 (0)	0.069	<0.0001	0.0015
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	30 (14.9)	30 (14.9)	0 (0)	0.069	<0.0001	0.0015
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	29 (15.2)	29 (15.2)	0 (0)	0.068	<0.0001	0.0015
GSE42724 NAIVE BCELL VS PLASMABLAST UP	193	29 (15)	29 (15)	0 (0)	0.067	<0.0001	0.0015
GSE9988 LOW LPS VS VEHICLE TREATED MONOCYTE UP	189	28 (14.8)	28 (14.8)	0 (0)	0.065	<0.0001	0.0015
GSE2706 UNSTIM VS 2H R848 DC DN	190	28 (14.7)	28 (14.7)	0 (0)	0.065	<0.0001	0.0015
GSE42021 TREG VS TCONV PLN UP	199	28 (14.1)	27 (13.6)	1 (0.5)	0.064	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 16H DN	189	27 (14.3)	27 (14.3)	0 (0)	0.063	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 6H DN	197	27 (13.7)	27 (13.7)	0 (0)	0.062	<0.0001	0.0015
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	27 (13.7)	27 (13.7)	0 (0)	0.062	<0.0001	0.0015
GSE14000 UNSTIM VS 4H LPS DC TRANSLATED RNA DN	198	27 (13.6)	27 (13.6)	0 (0)	0.062	<0.0001	0.0015
GSE42021 CD24HI VS CD24INT TREG THYMUS DN	198	27 (13.6)	27 (13.6)	0 (0)	0.062	<0.0001	0.0015
GSE32986 CURDLAN HIGHDOSE VS GMCSF AND CURDLAN HIG...	202	27 (13.4)	27 (13.4)	0 (0)	0.061	<0.0001	0.0015
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 6H DN	195	26 (13.3)	26 (13.3)	0 (0)	0.060	<0.0001	0.0015
GSE41978 ID2 KO VS BIM KO KLRG1 LOW EFFECTOR CD8 T...	199	26 (13.1)	26 (13.1)	0 (0)	0.059	<0.0001	0.0015
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	26 (13)	26 (13)	0 (0)	0.059	<0.0001	0.0015
GSE2706 R848 VS LPS 2H STIM DC DN	182	25 (13.7)	25 (13.7)	0 (0)	0.059	<0.0001	0.0015

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE34392 ST2 KO VS WT DAY8 LCMV EFFECTOR CD8 TCELL...	200	26 (13)	26 (13)	0 (0)	0.059	<0.0001	0.0015
GSE36891 UNSTIM VS POLYIC TLR3 STIM PERITONEAL MAC...	146	23 (15.8)	23 (15.8)	0 (0)	0.059	<0.0001	0.0015
GSE22886 CTRL VS LPS 24H DC DN	201	26 (12.9)	26 (12.9)	0 (0)	0.059	<0.0001	0.0015
GSE7219 WT VS NIK NFKB2 KO DC UP	184	25 (13.6)	25 (13.6)	0 (0)	0.059	<0.0001	0.0015
GSE9988 LOW LPS VS CTRL TREATED MONOCYTE UP	189	25 (13.2)	25 (13.2)	0 (0)	0.058	<0.0001	0.0015
GSE9988 ANTI TREM1 AND LPS VS CTRL TREATED MONOCYT...	190	25 (13.2)	25 (13.2)	0 (0)	0.058	<0.0001	0.0015
GSE37605 TREG VS TCONV NOD FOXP3 FUSION GFP UP	139	22 (15.8)	22 (15.8)	0 (0)	0.057	<0.0001	0.0015
GSE13484 UNSTIM VS YF17D VACCINE STIM PBMC DN	199	25 (12.6)	25 (12.6)	0 (0)	0.057	<0.0001	0.0015
GSE37533 PPARG1 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	199	25 (12.6)	25 (12.6)	0 (0)	0.057	<0.0001	0.0015
GSE37533 PPARG1 FOXP3 VS PPARG2 FOXP3 TRANSDUCED C...	199	25 (12.6)	24 (12.1)	1 (0.5)	0.057	<0.0001	0.0015
GSE9988 ANTI TREM1 VS ANTI TREM1 AND LPS MONOCYTE ...	188	24 (12.8)	23 (12.2)	1 (0.5)	0.056	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 12H DN	195	24 (12.3)	24 (12.3)	0 (0)	0.055	<0.0001	0.0015
GSE14000 UNSTIM VS 16H LPS DC TRANSLATED RNA DN	196	24 (12.2)	23 (11.7)	1 (0.5)	0.055	<0.0001	0.0015
GSE37605 FOXP3 FUSION GFP VS IRES GFP TREG C57BL6 ...	182	23 (12.6)	23 (12.6)	0 (0)	0.054	<0.0001	0.0015
GSE26343 UNSTIM VS LPS STIM NFAT5 KO MACROPHAGE DN	202	24 (11.9)	24 (11.9)	0 (0)	0.054	<0.0001	0.0015
GSE18791 CTRL VS NEWCASTLE VIRUS DC 18H DN	189	23 (12.2)	23 (12.2)	0 (0)	0.053	<0.0001	0.0015
GSE2706 UNSTIM VS 8H LPS AND R848 DC DN	194	23 (11.9)	23 (11.9)	0 (0)	0.052	<0.0001	0.0015
GSE2706 UNSTIM VS 8H R848 DC DN	196	23 (11.7)	23 (11.7)	0 (0)	0.052	<0.0001	0.0015
GSE37533 PPARG2 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	198	23 (11.6)	23 (11.6)	0 (0)	0.052	<0.0001	0.0015
GSE46606 UNSTIM VS CD40L IL2 IL5 1DAY STIMULATED I...	199	23 (11.6)	23 (11.6)	0 (0)	0.052	<0.0001	0.0015
GSE42021 TREG PLN VS CD24INT TREG THYMUS DN	200	23 (11.5)	23 (11.5)	0 (0)	0.052	<0.0001	0.0015
GSE9316 IL6 KO VS IFNG KO INVIVO EXPANDED CD4 TCEL...	201	23 (11.4)	23 (11.4)	0 (0)	0.052	<0.0001	0.0015

Table 59: Enriched MSigDB Immunological Signatures (RP, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG TOLL LIKE RECEPTOR SIGNALING PATHWAY	102	9 (8.8)	8 (7.8)	1 (1)	0.025	<0.0001	0.0093
KEGG RIG I LIKE RECEPTOR SIGNALING PATHWAY	71	8 (11.3)	8 (11.3)	0 (0)	0.024	<0.0001	0.0093
KEGG CYTOSOLIC DNA SENSING PATHWAY	55	5 (9.1)	5 (9.1)	0 (0)	0.016	0.0002	0.0124
KEGG NOD LIKE RECEPTOR SIGNALING PATHWAY	62	6 (9.7)	6 (9.7)	0 (0)	0.019	0.0003	0.0139
KEGG ADIPOCYTOKINE SIGNALING PATHWAY	68	6 (8.8)	6 (8.8)	0 (0)	0.018	0.0006	0.0223
KEGG CIRCADIAN RHYTHM MAMMAL	13	3 (23.1)	3 (23.1)	0 (0)	0.011	0.0018	0.0558
KEGG MAPK SIGNALING PATHWAY	267	11 (4.1)	10 (3.7)	1 (0.4)	0.021	0.0024	0.0614
KEGG JAK STAT SIGNALING PATHWAY	155	7 (4.5)	6 (3.9)	1 (0.6)	0.017	0.0033	0.0614
KEGG EPITHELIAL CELL SIGNALING IN HELICOBACTER PYL...	68	5 (7.4)	5 (7.4)	0 (0)	0.015	0.0032	0.0614
KEGG LEISHMANIA INFECTION	69	5 (7.2)	5 (7.2)	0 (0)	0.015	0.0032	0.0614
KEGG CYTOKINE CYTOKINE RECEPTOR INTERACTION	263	9 (3.4)	8 (3)	1 (0.4)	0.017	0.0045	0.0697
KEGG P53 SIGNALING PATHWAY	68	5 (7.4)	5 (7.4)	0 (0)	0.015	0.0042	0.0697

Table 60: Enriched MSigDB KEGG Pathways (RP, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERASE...	315	17 (5.4)	17 (5.4)	0 (0)	0.030	<0.0001	0.0206
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	17 (5.2)	17 (5.2)	0 (0)	0.029	<0.0001	0.0206
GO RNA POLYMERASE II TRANSCRIPTION FACTOR ACTIVITY...	629	24 (3.8)	24 (3.8)	0 (0)	0.028	<0.0001	0.0206
GO CORE PROMOTER PROXIMAL REGION DNA BINDING	371	17 (4.6)	17 (4.6)	0 (0)	0.027	0.0002	0.0206
GO TRANSCRIPTION FACTOR BINDING	524	21 (4)	21 (4)	0 (0)	0.027	0.0002	0.0206
GO DOUBLE STRANDED DNA BINDING	765	26 (3.4)	26 (3.4)	0 (0)	0.026	0.0002	0.0206
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERASE...	226	12 (5.3)	12 (5.3)	0 (0)	0.025	0.0002	0.0206
GO GTPASE ACTIVITY	243	12 (4.9)	12 (4.9)	0 (0)	0.024	0.0002	0.0206
GO LEUCINE ZIPPER DOMAIN BINDING	11	3 (27.3)	3 (27.3)	0 (0)	0.011	0.0002	0.0206
GO TRANSCRIPTION COREPRESSOR ACTIVITY	219	12 (5.5)	12 (5.5)	0 (0)	0.025	0.0003	0.0232
GO TRANSCRIPTION FACTOR ACTIVITY PROTEIN BINDING	584	21 (3.6)	21 (3.6)	0 (0)	0.025	0.0003	0.0232
GO REGULATORY REGION NUCLEIC ACID BINDING	818	26 (3.2)	26 (3.2)	0 (0)	0.025	0.0003	0.0232
GO SEQUENCE SPECIFIC DNA BINDING	1033	31 (3)	31 (3)	0 (0)	0.024	0.0004	0.0286
GO R SMAD BINDING	23	4 (17.4)	4 (17.4)	0 (0)	0.014	0.0008	0.0531
GO LRR DOMAIN BINDING	17	3 (17.6)	3 (17.6)	0 (0)	0.011	0.0013	0.0805
GO NUCLEIC ACID BINDING TRANSCRIPTION FACTOR ACTIV...	1195	31 (2.6)	30 (2.5)	1 (0.1)	0.022	0.0016	0.0826
GO TRANSCRIPTIONAL REPRESSOR ACTIVITY RNA POLYMERASE...	86	6 (7)	6 (7)	0 (0)	0.017	0.0015	0.0826
GO CYTOKINE ACTIVITY	218	8 (3.7)	8 (3.7)	0 (0)	0.017	0.0016	0.0826

Table 61: Enriched MSigDB Molecular Functions (RP, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME INTERFERON SIGNALING	153	18 (11.8)	18 (11.8)	0 (0)	0.045	<0.0001	0.0048
REACTOME CYTOKINE SIGNALING IN IMMUNE SYSTEM	263	22 (8.4)	20 (7.6)	2 (0.8)	0.043	<0.0001	0.0048
REACTOME INTERFERON ALPHA BETA SIGNALING	62	13 (21)	13 (21)	0 (0)	0.041	<0.0001	0.0048
REACTOME RIG I MDA5 MEDIATED INDUCTION OF IFN ALPH...	72	13 (18.1)	13 (18.1)	0 (0)	0.040	<0.0001	0.0048
REACTOME INNATE IMMUNE SYSTEM	269	18 (6.7)	17 (6.3)	1 (0.4)	0.035	<0.0001	0.0048
REACTOME IMMUNE SYSTEM	895	37 (4.1)	35 (3.9)	2 (0.2)	0.033	<0.0001	0.0048
REACTOME TRIF MEDIATED TLR3 SIGNALING	72	8 (11.1)	7 (9.7)	1 (1.4)	0.024	<0.0001	0.0048
REACTOME NEGATIVE REGULATORS OF RIG I MDA5 SIGNALI...	30	7 (23.3)	7 (23.3)	0 (0)	0.024	<0.0001	0.0048
REACTOME UNFOLDED PROTEIN RESPONSE	77	8 (10.4)	8 (10.4)	0 (0)	0.024	<0.0001	0.0048
REACTOME INTERFERON GAMMA SIGNALING	59	7 (11.9)	7 (11.9)	0 (0)	0.022	<0.0001	0.0048
REACTOME ACTIVATION OF GENES BY ATF4	24	5 (20.8)	5 (20.8)	0 (0)	0.018	<0.0001	0.0048
REACTOME PERK REGULATED GENE EXPRESSION	27	5 (18.5)	5 (18.5)	0 (0)	0.017	<0.0001	0.0048
REACTOME RIP MEDIATED NFkB ACTIVATION VIA DAI	18	4 (22.2)	4 (22.2)	0 (0)	0.014	<0.0001	0.0048
REACTOME TRAF6 MEDIATED NFkB ACTIVATION	21	4 (19)	4 (19)	0 (0)	0.014	<0.0001	0.0048
REACTOME NFkB AND MAP KINASES ACTIVATION MEDIATED ...	70	7 (10)	6 (8.6)	1 (1.4)	0.021	0.0002	0.009
REACTOME ACTIVATED TLR4 SIGNALLING	91	8 (8.8)	7 (7.7)	1 (1.1)	0.023	0.0003	0.0126
REACTOME DIABETES PATHWAYS	129	9 (7)	9 (7)	0 (0)	0.023	0.0004	0.0159
REACTOME TRAF6 MEDIATED IRF7 ACTIVATION	30	4 (13.3)	4 (13.3)	0 (0)	0.014	0.0006	0.0225
REACTOME TOLL RECEPTOR CASCADES	114	8 (7)	7 (6.1)	1 (0.9)	0.021	0.0011	0.039
REACTOME ANTIVIRAL MECHANISM BY IFN STIMULATED GEN...	65	6 (9.2)	6 (9.2)	0 (0)	0.018	0.0013	0.0438
REACTOME TRAF6 MEDIATED INDUCTION OF NFkB AND MAP ...	75	6 (8)	5 (6.7)	1 (1.3)	0.018	0.002	0.0642
REACTOME TRAF3 DEPENDENT IRF ACTIVATION PATHWAY	14	3 (21.4)	3 (21.4)	0 (0)	0.011	0.0022	0.0674

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME REGULATION OF IFNA SIGNALING	24	3 (12.5)	3 (12.5)	0 (0)	0.010	0.0026	0.0762
REACTOME MYD88 MAL CASCADE INITIATED ON PLASMA MEM...	81	6 (7.4)	5 (6.2)	1 (1.2)	0.018	0.0028	0.0786

Table 62: Enriched MSigDB Reactome Pathways (RP, Huh7, cytosol, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY IN RESPON...	32	7 (21.9)	7 (21.9)	0 (0)	0.104	<0.0001	0.0133
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	12	3 (25)	3 (25)	0 (0)	0.059	<0.0001	0.0133
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	23	3 (13)	3 (13)	0 (0)	0.048	<0.0001	0.0133
GO RESPONSE TO TYPE I INTERFERON	67	5 (7.5)	5 (7.5)	0 (0)	0.048	<0.0001	0.0133
GO REGULATION OF ENDOPLASMIC RETICULUM STRESS INDU...	30	3 (10)	3 (10)	0 (0)	0.043	<0.0001	0.0133
GO NEGATIVE REGULATION OF T CELL DIFFERENTIATION	32	3 (9.4)	3 (9.4)	0 (0)	0.042	<0.0001	0.0133
GO DEFENSE RESPONSE TO VIRUS	164	8 (4.9)	8 (4.9)	0 (0)	0.040	<0.0001	0.0133
GO NEGATIVE REGULATION OF LYMPHOCYTE DIFFERENTIATI...	40	3 (7.5)	3 (7.5)	0 (0)	0.038	<0.0001	0.0133
GO INTRINSIC APOPTOTIC SIGNALING PATHWAY	153	7 (4.6)	7 (4.6)	0 (0)	0.037	<0.0001	0.0133
GO RESPONSE TO DSRNA	72	4 (5.6)	4 (5.6)	0 (0)	0.036	<0.0001	0.0133
GO RESPONSE TO EXOGENOUS DSRNA	45	3 (6.7)	3 (6.7)	0 (0)	0.036	<0.0001	0.0133
GO RESPONSE TO ENDOPLASMIC RETICULUM STRESS	233	8 (3.4)	8 (3.4)	0 (0)	0.030	<0.0001	0.0133
GO NEGATIVE REGULATION OF HOMOTYPIC CELL CELL ADHE...	100	4 (4)	4 (4)	0 (0)	0.029	<0.0001	0.0133
GO RESPONSE TO VIRUS	247	8 (3.2)	8 (3.2)	0 (0)	0.029	<0.0001	0.0133
GO NEGATIVE REGULATION OF CELL ACTIVATION	156	5 (3.2)	5 (3.2)	0 (0)	0.026	<0.0001	0.0133
GO CELLULAR RESPONSE TO BIOTIC STIMULUS	162	5 (3.1)	5 (3.1)	0 (0)	0.025	<0.0001	0.0133
GO POSITIVE REGULATION OF APOPTOTIC SIGNALING PATH...	171	5 (2.9)	5 (2.9)	0 (0)	0.024	<0.0001	0.0133
GO APOPTOTIC SIGNALING PATHWAY	291	7 (2.4)	7 (2.4)	0 (0)	0.021	<0.0001	0.0133
GO IMMUNE EFFECTOR PROCESS	455	9 (2)	9 (2)	0 (0)	0.018	<0.0001	0.0133
GO DEFENSE RESPONSE TO OTHER ORGANISM	483	9 (1.9)	9 (1.9)	0 (0)	0.017	<0.0001	0.0133
GO NEGATIVE REGULATION OF IMMUNE SYSTEM PROCESS	370	7 (1.9)	7 (1.9)	0 (0)	0.017	<0.0001	0.0133
GO NEGATIVE REGULATION OF PHOSPHORYLATION	423	7 (1.7)	7 (1.7)	0 (0)	0.015	<0.0001	0.0133
GO RESPONSE TO EXTRACELLULAR STIMULUS	442	7 (1.6)	7 (1.6)	0 (0)	0.015	<0.0001	0.0133
GO RESPONSE TO BIOTIC STIMULUS	862	13 (1.5)	13 (1.5)	0 (0)	0.015	<0.0001	0.0133
GO RESPONSE TO NITROGEN COMPOUND	862	13 (1.5)	13 (1.5)	0 (0)	0.015	<0.0001	0.0133
GO POSITIVE REGULATION OF CELL DEATH	606	9 (1.5)	9 (1.5)	0 (0)	0.014	<0.0001	0.0133
GO CELL DEATH	1002	14 (1.4)	14 (1.4)	0 (0)	0.014	<0.0001	0.0133
GO CELLULAR RESPONSE TO CYTOKINE STIMULUS	603	8 (1.3)	8 (1.3)	0 (0)	0.013	<0.0001	0.0133
GO POSITIVE REGULATION OF TRANSCRIPTION FROM RNA P...	1004	12 (1.2)	12 (1.2)	0 (0)	0.012	<0.0001	0.0133
GO REGULATION OF CELL DEATH	1473	16 (1.1)	16 (1.1)	0 (0)	0.011	<0.0001	0.0133
GO NEGATIVE REGULATION OF MOLECULAR FUNCTION	1076	11 (1)	11 (1)	0 (0)	0.010	<0.0001	0.0133
GO RESPONSE TO EXTERNAL STIMULUS	1797	17 (0.9)	17 (0.9)	0 (0)	0.009	<0.0001	0.0133
GO REGULATION OF INTRACELLULAR SIGNAL TRANSDUCTION	1659	15 (0.9)	15 (0.9)	0 (0)	0.009	<0.0001	0.0133
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	15 (0.8)	15 (0.8)	0 (0)	0.008	<0.0001	0.0133
GO REGULATION OF TRANSCRIPTION FROM RNA POLYMERASE...	1785	14 (0.8)	14 (0.8)	0 (0)	0.008	<0.0001	0.0133
GO NEGATIVE REGULATION OF TYPE 2 IMMUNE RESPONSE	11	2 (18.2)	2 (18.2)	0 (0)	0.039	0.0002	0.019
GO REGULATION OF DNA TEMPLATED TRANSCRIPTION IN RE...	67	4 (6)	4 (6)	0 (0)	0.038	0.0002	0.019
GO RESPONSE TO STARVATION	154	5 (3.2)	5 (3.2)	0 (0)	0.026	0.0002	0.019

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO NEGATIVE REGULATION OF KINASE ACTIVITY	250	5 (2)	5 (2)	0 (0)	0.017	0.0002	0.019
GO NEGATIVE REGULATION OF PHOSPHATE METABOLIC PROCESS	543	8 (1.5)	8 (1.5)	0 (0)	0.014	0.0002	0.019
GO NEGATIVE REGULATION OF PHOSPHORUS METABOLIC PROCESS	543	8 (1.5)	8 (1.5)	0 (0)	0.014	0.0002	0.019
GO RESPONSE TO CYTOKINE	711	9 (1.3)	9 (1.3)	0 (0)	0.012	0.0002	0.019
GO TRANSCRIPTION FROM RNA POLYMERASE II PROMOTER	722	9 (1.2)	9 (1.2)	0 (0)	0.012	0.0002	0.019
GO NEGATIVE REGULATION OF RESPONSE TO STIMULUS	1364	12 (0.9)	12 (0.9)	0 (0)	0.009	0.0002	0.019
GO INTRACELLULAR SIGNAL TRANSDUCTION	1568	13 (0.8)	13 (0.8)	0 (0)	0.008	0.0002	0.019
GO POSITIVE REGULATION OF GENE EXPRESSION	1732	14 (0.8)	14 (0.8)	0 (0)	0.008	0.0002	0.019
GO REGULATION OF PHOSPHORUS METABOLIC PROCESS	1618	13 (0.8)	13 (0.8)	0 (0)	0.008	0.0002	0.019
GO POSITIVE REGULATION OF BIOSYNTHETIC PROCESS	1805	14 (0.8)	14 (0.8)	0 (0)	0.008	0.0002	0.019
GO REGULATION OF PROTEIN MODIFICATION PROCESS	1709	13 (0.8)	13 (0.8)	0 (0)	0.007	0.0002	0.019
GO NEGATIVE REGULATION OF VIRAL GENOME REPLICATION	49	3 (6.1)	3 (6.1)	0 (0)	0.034	0.0003	0.0263

Table 63: Enriched MSigDB Biological Processes (RP, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	13 (6.9)	13 (6.9)	0 (0)	0.060	<0.0001	0.0039
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	12 (6)	12 (6)	0 (0)	0.052	<0.0001	0.0039
GSE37605 TREG VS TCONV NOD FOXP3 FUSION GFP UP	139	9 (6.5)	9 (6.5)	0 (0)	0.052	<0.0001	0.0039
GSE36891 POLYIC TLR3 VS PAM TLR2 STIM PERITONEAL M...	146	9 (6.2)	9 (6.2)	0 (0)	0.050	<0.0001	0.0039
GSE36891 UNSTIM VS POLYIC TLR3 STIM PERITONEAL MAC...	146	9 (6.2)	9 (6.2)	0 (0)	0.050	<0.0001	0.0039
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	11 (5.8)	11 (5.8)	0 (0)	0.050	<0.0001	0.0039
GSE18791 CTRL VS NEWCASTLE VIRUS DC 2H DN	175	10 (5.7)	10 (5.7)	0 (0)	0.048	<0.0001	0.0039
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	11 (5.5)	11 (5.5)	0 (0)	0.048	<0.0001	0.0039
GSE2706 UNSTIM VS 2H R848 DC DN	190	10 (5.3)	10 (5.3)	0 (0)	0.045	<0.0001	0.0039
GSE2706 UNSTIM VS 2H LPS DC DN	192	10 (5.2)	10 (5.2)	0 (0)	0.045	<0.0001	0.0039
GSE9988 ANTI TREM1 VS CTRL TREATED MONOCYTES UP	192	10 (5.2)	10 (5.2)	0 (0)	0.045	<0.0001	0.0039
GSE14000 UNSTIM VS 4H LPS DC DN	199	9 (4.5)	9 (4.5)	0 (0)	0.039	<0.0001	0.0039
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	9 (4.5)	9 (4.5)	0 (0)	0.039	<0.0001	0.0039
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	9 (4.5)	9 (4.5)	0 (0)	0.038	<0.0001	0.0039
GSE9316 IL6 KO VS IFNG KO INVIVO EXPANDED CD4 TCEL...	201	9 (4.5)	9 (4.5)	0 (0)	0.038	<0.0001	0.0039
GSE37605 FOXP3 FUSION GFP VS IRES GFP TREG C57BL6 ...	182	8 (4.4)	8 (4.4)	0 (0)	0.037	<0.0001	0.0039
GSE18791 CTRL VS NEWCASTLE VIRUS DC 4H DN	185	8 (4.3)	8 (4.3)	0 (0)	0.036	<0.0001	0.0039
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 18H DN	186	8 (4.3)	8 (4.3)	0 (0)	0.036	<0.0001	0.0039
GSE37605 C57BL6 VS NOD FOXP3 FUSION GFP TREG DN	187	8 (4.3)	8 (4.3)	0 (0)	0.036	<0.0001	0.0039
GSE35825 IFNA VS IFNG STIM MACROPHAGE UP	159	7 (4.4)	7 (4.4)	0 (0)	0.036	<0.0001	0.0039
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	8 (4.3)	8 (4.3)	0 (0)	0.036	<0.0001	0.0039
GSE18791 CTRL VS NEWCASTLE VIRUS DC 16H DN	189	8 (4.2)	8 (4.2)	0 (0)	0.036	<0.0001	0.0039
GSE9988 ANTI TREM1 AND LPS VS CTRL TREATED MONOCYT...	190	8 (4.2)	8 (4.2)	0 (0)	0.036	<0.0001	0.0039
GSE9988 LPS VS VEHICLE TREATED MONOCYTE UP	191	8 (4.2)	8 (4.2)	0 (0)	0.036	<0.0001	0.0039
GSE2706 UNSTIM VS 8H LPS AND R848 DC DN	194	8 (4.1)	8 (4.1)	0 (0)	0.035	<0.0001	0.0039
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	8 (4.1)	8 (4.1)	0 (0)	0.035	<0.0001	0.0039
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	8 (4)	8 (4)	0 (0)	0.035	<0.0001	0.0039
GSE37534 UNTREATED VS PIOGLITAZONE TREATED CD4 TCE...	198	8 (4)	8 (4)	0 (0)	0.035	<0.0001	0.0039

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE3982 CTRL VS LPS 48H DC DN	198	8 (4)	8 (4)	0 (0)	0.035	<0.0001	0.0039
GSE42021 TREG VS TCONV PLN UP	199	8 (4)	8 (4)	0 (0)	0.034	<0.0001	0.0039
GSE2770 UNTREATED VS IL12 TREATED ACT CD4 TCELL 6H...	200	8 (4)	8 (4)	0 (0)	0.034	<0.0001	0.0039
GSE32986 CURDLAN HIGHDOSE VS GMCSF AND CURDLAN HIG...	202	8 (4)	8 (4)	0 (0)	0.034	<0.0001	0.0039
GSE6092 CTRL VS BORRELIA BIRGDOFERI INF ENDOTHELIA...	145	6 (4.1)	6 (4.1)	0 (0)	0.033	<0.0001	0.0039
GSE2706 R848 VS LPS 2H STIM DC DN	182	7 (3.8)	7 (3.8)	0 (0)	0.032	<0.0001	0.0039
GSE9988 LOW LPS VS CTRL TREATED MONOCYTE UP	189	7 (3.7)	7 (3.7)	0 (0)	0.031	<0.0001	0.0039
GSE9988 LOW LPS VS VEHICLE TREATED MONOCYTE UP	189	7 (3.7)	7 (3.7)	0 (0)	0.031	<0.0001	0.0039
GSE27241 CTRL VS DIGOXIN TREATED CD4 TCELL IN TH17...	159	6 (3.8)	6 (3.8)	0 (0)	0.031	<0.0001	0.0039
GSE2706 UNSTIM VS 8H R848 DC DN	196	7 (3.6)	7 (3.6)	0 (0)	0.030	<0.0001	0.0039
GSE18791 CTRL VS NEWCASTLE VIRUS DC 6H DN	197	7 (3.6)	7 (3.6)	0 (0)	0.030	<0.0001	0.0039
GSE14000 UNSTIM VS 4H LPS DC TRANSLATED RNA DN	198	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE15324 ELF4 KO VS WT NAIVE CD8 TCELL DN	198	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE13484 UNSTIM VS YF17D VACCINE STIM PBMC DN	199	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE20754 WT VS TCF1 KO MEMORY CD8 TCELL UP	199	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE37533 PPARG1 FOXP3 VS PPARG2 FOXP3 TRANSDUCED C...	199	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE3982 CTRL VS LPS 4H MAC DN	199	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE41978 ID2 KO VS BIM KO KLRG1 LOW EFFECTOR CD8 T...	199	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE42021 CD24HI TREG VS CD24HI TCONV THYMUS DN	199	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE34392 ST2 KO VS WT DAY8 LCMV EFFECTOR CD8 TCELL...	200	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE45365 NK CELL VS CD11B DC DN	200	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	7 (3.5)	7 (3.5)	0 (0)	0.030	<0.0001	0.0039

Table 64: Enriched MSigDB Immunological Signatures (RP, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG P53 SIGNALING PATHWAY	68	4 (5.9)	4 (5.9)	0 (0)	0.038	0.0003	0.0372
KEGG CYTOSOLIC DNA SENSING PATHWAY	55	3 (5.5)	3 (5.5)	0 (0)	0.032	0.0004	0.0372
KEGG RIG I LIKE RECEPTOR SIGNALING PATHWAY	71	3 (4.2)	3 (4.2)	0 (0)	0.027	0.0008	0.0496

Table 65: Enriched MSigDB KEGG Pathways (RP, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERASE...	315	9 (2.9)	9 (2.9)	0 (0)	0.026	<0.0001	0.0186
GO TRANSCRIPTIONAL ACTIVATOR ACTIVITY RNA POLYMERASE...	226	6 (2.7)	6 (2.7)	0 (0)	0.023	<0.0001	0.0186
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	7 (2.1)	7 (2.1)	0 (0)	0.019	<0.0001	0.0186
GO CORE PROMOTER PROXIMAL REGION DNA BINDING	371	7 (1.9)	7 (1.9)	0 (0)	0.017	<0.0001	0.0186
GO RNA POLYMERASE II TRANSCRIPTION FACTOR ACTIVITY...	629	9 (1.4)	9 (1.4)	0 (0)	0.014	<0.0001	0.0186

Table 66: Enriched MSigDB Molecular Functions (RP, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME INTERFERON ALPHA BETA SIGNALING	62	5 (8.1)	5 (8.1)	0 (0)	0.051	<0.0001	0.0674
REACTOME INTERFERON SIGNALING	153	5 (3.3)	5 (3.3)	0 (0)	0.026	0.0002	0.0674
REACTOME RIG I MDAS MEDIATED INDUCTION OF IFN ALPH...	72	4 (5.6)	4 (5.6)	0 (0)	0.036	0.0004	0.0899

Table 67: Enriched MSigDB Reactome Pathways (RP, Huh7, ER, 24h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO LIPID METABOLIC PROCESS	1154	135 (11.7)	18 (1.6)	117 (10.1)	0.065	<0.0001	0.005
GO RESPONSE TO EXTERNAL STIMULUS	1797	167 (9.3)	106 (5.9)	61 (3.4)	0.062	<0.0001	0.005
GO CELLULAR LIPID METABOLIC PROCESS	910	107 (11.8)	13 (1.4)	94 (10.3)	0.058	<0.0001	0.005
GO CELLULAR RESPONSE TO ORGANIC SUBSTANCE	1847	147 (8)	93 (5)	54 (2.9)	0.053	<0.0001	0.005
GO IMMUNE SYSTEM PROCESS	1936	149 (7.7)	100 (5.2)	49 (2.5)	0.053	<0.0001	0.005
GO DEFENSE RESPONSE	1200	111 (9.2)	74 (6.2)	37 (3.1)	0.052	<0.0001	0.005
GO RESPONSE TO OXYGEN CONTAINING COMPOUND	1383	120 (8.7)	64 (4.6)	56 (4)	0.052	<0.0001	0.005
GO SMALL MOLECULE METABOLIC PROCESS	1765	136 (7.7)	24 (1.4)	112 (6.3)	0.051	<0.0001	0.005
GO NEGATIVE REGULATION OF RESPONSE TO STIMULUS	1364	115 (8.4)	61 (4.5)	54 (4)	0.050	<0.0001	0.005
GO RESPONSE TO BIOTIC STIMULUS	862	89 (10.3)	69 (8)	20 (2.3)	0.049	<0.0001	0.005
GO IMMUNE RESPONSE	1057	97 (9.2)	72 (6.8)	25 (2.4)	0.048	<0.0001	0.005
GO NEGATIVE REGULATION OF PROTEIN METABOLIC PROCES...	1085	98 (9)	58 (5.3)	40 (3.7)	0.048	<0.0001	0.005
GO NEGATIVE REGULATION OF MULTICELLULAR ORGANISMAL...	981	91 (9.3)	51 (5.2)	40 (4.1)	0.047	<0.0001	0.005
GO RESPONSE TO CYTOKINE	711	75 (10.5)	58 (8.2)	17 (2.4)	0.045	<0.0001	0.005
GO LIPID BIOSYNTHETIC PROCESS	538	65 (12.1)	6 (1.1)	59 (11)	0.043	<0.0001	0.005
GO CHEMICAL HOMEOSTASIS	873	78 (8.9)	22 (2.5)	56 (6.4)	0.042	<0.0001	0.005
GO RESPONSE TO NITROGEN COMPOUND	862	76 (8.8)	44 (5.1)	32 (3.7)	0.042	<0.0001	0.005
GO REGULATION OF RESPONSE TO EXTERNAL STIMULUS	925	78 (8.4)	32 (3.5)	46 (5)	0.041	<0.0001	0.005
GO CELLULAR RESPONSE TO CYTOKINE STIMULUS	603	64 (10.6)	48 (8)	16 (2.7)	0.040	<0.0001	0.005
GO NEGATIVE REGULATION OF MOLECULAR FUNCTION	1076	82 (7.6)	51 (4.7)	31 (2.9)	0.040	<0.0001	0.005
GO INNATE IMMUNE RESPONSE	591	63 (10.7)	50 (8.5)	13 (2.2)	0.040	<0.0001	0.005
GO IMMUNE EFFECTOR PROCESS	455	57 (12.5)	47 (10.3)	10 (2.2)	0.039	<0.0001	0.005
GO RESPONSE TO LIPID	888	73 (8.2)	40 (4.5)	33 (3.7)	0.039	<0.0001	0.005
GO CELLULAR RESPONSE TO OXYGEN CONTAINING COMPOUND	802	69 (8.6)	40 (5)	29 (3.6)	0.039	<0.0001	0.005
GO NEGATIVE REGULATION OF DEVELOPMENTAL PROCESS	799	67 (8.4)	40 (5)	27 (3.4)	0.038	<0.0001	0.005
GO REGULATION OF DEFENSE RESPONSE	757	65 (8.6)	36 (4.8)	29 (3.8)	0.037	<0.0001	0.005
GO RESPONSE TO VIRUS	247	46 (18.6)	43 (17.4)	3 (1.2)	0.037	<0.0001	0.005
GO NEGATIVE REGULATION OF PROTEIN MODIFICATION PRO...	618	59 (9.5)	43 (7)	16 (2.6)	0.037	<0.0001	0.005
GO REGULATION OF CYTOKINE PRODUCTION	560	56 (10)	40 (7.1)	16 (2.9)	0.036	<0.0001	0.005
GO ANION TRANSPORT	504	53 (10.5)	6 (1.2)	47 (9.3)	0.035	<0.0001	0.005
GO ORGANIC HYDROXY COMPOUND METABOLIC PROCESS	482	52 (10.8)	8 (1.7)	44 (9.1)	0.035	<0.0001	0.005
GO RESPONSE TO WOUNDING	563	54 (9.6)	19 (3.4)	35 (6.2)	0.035	<0.0001	0.005
GO DEFENSE RESPONSE TO OTHER ORGANISM	483	51 (10.6)	40 (8.3)	11 (2.3)	0.035	<0.0001	0.005
GO DEFENSE RESPONSE TO VIRUS	164	40 (24.4)	38 (23.2)	2 (1.2)	0.034	<0.0001	0.005
GO ALCOHOL METABOLIC PROCESS	348	46 (13.2)	8 (2.3)	38 (10.9)	0.034	<0.0001	0.005
GO ORGANIC ANION TRANSPORT	384	47 (12.2)	5 (1.3)	42 (10.9)	0.034	<0.0001	0.005
GO REGULATION OF RESPONSE TO WOUNDING	411	48 (11.7)	17 (4.1)	31 (7.5)	0.034	<0.0001	0.005

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO POSITIVE REGULATION OF LOCOMOTION	420	47 (11.2)	24 (5.7)	23 (5.5)	0.033	<0.0001	0.005
GO NEGATIVE REGULATION OF PHOSPHORYLATION	423	47 (11.1)	33 (7.8)	14 (3.3)	0.033	<0.0001	0.005
GO WOUND HEALING	471	48 (10.2)	16 (3.4)	32 (6.8)	0.033	<0.0001	0.005
GO GLYCEROLIPID METABOLIC PROCESS	355	43 (12.1)	8 (2.3)	35 (9.9)	0.032	<0.0001	0.005
GO PHOSPHOLIPID METABOLIC PROCESS	363	43 (11.8)	10 (2.8)	33 (9.1)	0.032	<0.0001	0.005
GO RESPONSE TO BACTERIUM	504	46 (9.1)	31 (6.2)	15 (3)	0.031	<0.0001	0.005
GO RESPONSE TO PEPTIDE	406	43 (10.6)	25 (6.2)	18 (4.4)	0.030	<0.0001	0.005
GO CYTOKINE MEDIATED SIGNALING PATHWAY	449	44 (9.8)	37 (8.2)	7 (1.6)	0.030	<0.0001	0.005
GO LIPID LOCALIZATION	264	38 (14.4)	5 (1.9)	33 (12.5)	0.030	<0.0001	0.005
GO REGULATION OF MULTI ORGANISM PROCESS	470	44 (9.4)	31 (6.6)	13 (2.8)	0.030	<0.0001	0.005
GO INFLAMMATORY RESPONSE	452	41 (9.1)	25 (5.5)	16 (3.5)	0.028	<0.0001	0.005
GO RESPONSE TO MOLECULE OF BACTERIAL ORIGIN	320	37 (11.6)	27 (8.4)	10 (3.1)	0.028	<0.0001	0.005
GO ORGANIC ACID TRANSPORT	259	35 (13.5)	3 (1.2)	32 (12.4)	0.028	<0.0001	0.005

Table 68: Enriched MSigDB Biological Processes (RP, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO ENDOPLASMIC RETICULUM	1624	159 (9.8)	23 (1.4)	136 (8.4)	0.063	<0.0001	0.0042
GO ENDOPLASMIC RETICULUM PART	1157	121 (10.5)	11 (1)	110 (9.5)	0.058	<0.0001	0.0042
GO NUCLEAR OUTER MEMBRANE ENDOPLASMIC RETICULUM ME...	1000	101 (10.1)	11 (1.1)	90 (9)	0.052	<0.0001	0.0042
GO EXTRACELLULAR SPACE	1342	117 (8.7)	33 (2.5)	84 (6.3)	0.051	<0.0001	0.0042
GO CELL SURFACE	730	65 (8.9)	11 (1.5)	54 (7.4)	0.038	<0.0001	0.0042
GO SECRETORY GRANULE	354	36 (10.2)	8 (2.3)	28 (7.9)	0.026	<0.0001	0.0042
GO BLOOD MICROPARTICLE	116	20 (17.2)	2 (1.7)	18 (15.5)	0.018	<0.0001	0.0042
GO VESICLE LUMEN	107	19 (17.8)	0 (0)	19 (17.8)	0.017	<0.0001	0.0042
GO SECRETORY GRANULE LUMEN	86	16 (18.6)	0 (0)	16 (18.6)	0.014	<0.0001	0.0042
GO PLATELET ALPHA GRANULE	76	14 (18.4)	0 (0)	14 (18.4)	0.013	<0.0001	0.0042
GO PROTEIN LIPID COMPLEX	40	10 (25)	2 (5)	8 (20)	0.009	<0.0001	0.0042
GO HIGH DENSITY LIPOPROTEIN PARTICLE	26	8 (30.8)	2 (7.7)	6 (23.1)	0.007	<0.0001	0.0042
GO TRIGLYCERIDE RICH LIPOPROTEIN PARTICLE	20	6 (30)	1 (5)	5 (25)	0.006	<0.0001	0.0042
GO VERY LOW DENSITY LIPOPROTEIN PARTICLE	20	6 (30)	1 (5)	5 (25)	0.006	<0.0001	0.0042
GO INTRINSIC COMPONENT OF PLASMA MEMBRANE	1637	124 (7.6)	14 (0.9)	110 (6.7)	0.048	0.0002	0.0073
GO PLATELET ALPHA GRANULE LUMEN	56	11 (19.6)	0 (0)	11 (19.6)	0.010	0.0002	0.0073
GO SECRETORY VESICLE	463	42 (9.1)	11 (2.4)	31 (6.7)	0.029	0.0004	0.0137
GO LYtic VACUOLE	523	47 (9)	11 (2.1)	36 (6.9)	0.031	0.0016	0.0519
GO PLATELET DENSE GRANULE LUMEN	14	4 (28.6)	0 (0)	4 (28.6)	0.004	0.0017	0.0522

Table 69: Enriched MSigDB Cellular Components (RP, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 8H DN	191	62 (32.5)	60 (31.4)	2 (1)	0.053	<0.0001	0.0019

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE18791 CTRL VS NEWCASTLE VIRUS DC 4H DN	185	54 (29.2)	52 (28.1)	2 (1.1)	0.046	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 6H DN	197	53 (26.9)	50 (25.4)	3 (1.5)	0.044	<0.0001	0.0019
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 10H DN	197	52 (26.4)	48 (24.4)	4 (2)	0.044	<0.0001	0.0019
GSE2706 UNSTIM VS 2H LPS AND R848 DC DN	189	51 (27)	50 (26.5)	1 (0.5)	0.043	<0.0001	0.0019
GSE2706 UNSTIM VS 2H LPS DC DN	192	51 (26.6)	49 (25.5)	2 (1)	0.043	<0.0001	0.0019
GSE42724 NAIVE BCELL VS PLASMABLAST UP	193	51 (26.4)	50 (25.9)	1 (0.5)	0.043	<0.0001	0.0019
GSE18791 UNSTIM VS NEWCATSLE VIRUS DC 6H DN	195	51 (26.2)	48 (24.6)	3 (1.5)	0.043	<0.0001	0.0019
GSE2706 UNSTIM VS 8H R848 DC DN	196	51 (26)	44 (22.4)	7 (3.6)	0.043	<0.0001	0.0019
GSE14000 UNSTIM VS 4H LPS DC DN	199	51 (25.6)	49 (24.6)	2 (1)	0.043	<0.0001	0.0019
GSE21546 WT VS SAP1A KO DP THYMOCYTES UP	194	48 (24.7)	44 (22.7)	4 (2.1)	0.040	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 10H DN	198	48 (24.2)	46 (23.2)	2 (1)	0.040	<0.0001	0.0019
GSE22886 CTRL VS LPS 24H DC DN	201	48 (23.9)	46 (22.9)	2 (1)	0.040	<0.0001	0.0019
GSE42021 CD24INT VS CD24LOW TREG THYMUS DN	196	47 (24)	39 (19.9)	8 (4.1)	0.039	<0.0001	0.0019
GSE42021 TREG VS TCONV PLN UP	199	47 (23.6)	46 (23.1)	1 (0.5)	0.039	<0.0001	0.0019
GSE13485 DAY3 VS DAY7 YF17D VACCINE PBMC DN	196	46 (23.5)	43 (21.9)	3 (1.5)	0.038	<0.0001	0.0019
GSE37533 PPARG1 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	198	46 (23.2)	38 (19.2)	8 (4)	0.038	<0.0001	0.0019
GSE37533 PPARG2 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	198	46 (23.2)	43 (21.7)	3 (1.5)	0.038	<0.0001	0.0019
GSE13484 UNSTIM VS YF17D VACCINE STIM PBMC DN	199	45 (22.6)	44 (22.1)	1 (0.5)	0.037	<0.0001	0.0019
GSE13485 DAY1 VS DAY7 YF17D VACCINE PBMC DN	199	45 (22.6)	40 (20.1)	5 (2.5)	0.037	<0.0001	0.0019
GSE14000 UNSTIM VS 4H LPS DC TRANSLATED RNA DN	198	45 (22.7)	44 (22.2)	1 (0.5)	0.037	<0.0001	0.0019
GSE37533 PPARG1 FOXP3 VS FOXP3 TRANSDUCED CD4 TCEL...	199	45 (22.6)	43 (21.6)	2 (1)	0.037	<0.0001	0.0019
GSE13485 PRE VS POST YF17D VACCINATION PBMC DN	200	45 (22.5)	38 (19)	7 (3.5)	0.037	<0.0001	0.0019
GSE2706 UNSTIM VS 2H R848 DC DN	190	44 (23.2)	42 (22.1)	2 (1.1)	0.037	<0.0001	0.0019
GSE42021 CD24HI VS CD24INT TREG THYMUS DN	198	44 (22.2)	41 (20.7)	3 (1.5)	0.037	<0.0001	0.0019
GSE13485 CTRL VS DAY7 YF17D VACCINE PBMC DN	202	44 (21.8)	42 (20.8)	2 (1)	0.036	<0.0001	0.0019
GSE18791 CTRL VS NEWCASTLE VIRUS DC 16H DN	189	43 (22.8)	42 (22.2)	1 (0.5)	0.036	<0.0001	0.0019
GSE21927 SPLEEN C57BL6 VS 4T1 TUMOR BALBC MONOCYTE...	198	43 (21.7)	39 (19.7)	4 (2)	0.036	<0.0001	0.0019
GSE42021 CD24INT VS CD24LOW TCONV THYMUS DN	196	43 (21.9)	31 (15.8)	12 (6.1)	0.036	<0.0001	0.0019
GSE42021 TREG PLN VS TREG PRECURSORS THYMUS DN	198	43 (21.7)	41 (20.7)	2 (1)	0.036	<0.0001	0.0019
GSE14769 UNSTIM VS 80MIN LPS BMDM DN	201	43 (21.4)	42 (20.9)	1 (0.5)	0.036	<0.0001	0.0019
GSE18281 CORTICAL VS MEDULLARY THYMOCYTE UP	199	43 (21.6)	41 (20.6)	2 (1)	0.036	<0.0001	0.0019
GSE32986 CURDLAN HIGHDOSE VS GMCSF AND CURDLAN HIG...	202	43 (21.3)	39 (19.3)	4 (2)	0.036	<0.0001	0.0019
GSE41978 ID2 KO VS BIM KO KLRG1 LOW EFFECTOR CD8 T...	199	43 (21.6)	41 (20.6)	2 (1)	0.036	<0.0001	0.0019
GSE7219 WT VS NIK NFKB2 KO DC UP	184	42 (22.8)	31 (16.8)	11 (6)	0.035	<0.0001	0.0019
GSE2706 R848 VS R848 AND LPS 2H STIM DC DN	188	42 (22.3)	41 (21.8)	1 (0.5)	0.035	<0.0001	0.0019
GSE13485 CTRL VS DAY3 YF17D VACCINE PBMC DN	200	42 (21)	36 (18)	6 (3)	0.035	<0.0001	0.0019
GSE37533 PPARG1 FOXP3 VS PPARG2 FOXP3 TRANSDUCED C...	199	42 (21.1)	40 (20.1)	2 (1)	0.035	<0.0001	0.0019
GSE14769 UNSTIM VS 60MIN LPS BMDM DN	201	42 (20.9)	41 (20.4)	1 (0.5)	0.035	<0.0001	0.0019
GSE14769 UNSTIM VS 40MIN LPS BMDM DN	200	41 (20.5)	39 (19.5)	2 (1)	0.034	<0.0001	0.0019
GSE33424 CD161 INT VS NEG CD8 TCELL UP	201	41 (20.4)	36 (17.9)	5 (2.5)	0.034	<0.0001	0.0019
GSE34392 ST2 KO VS WT DAY8 LCMV EFFECTOR CD8 TCELL...	200	41 (20.5)	33 (16.5)	8 (4)	0.034	<0.0001	0.0019
GSE19888 ADENOSINE A3R INH VS ACT WITH INHIBITOR P...	199	40 (20.1)	33 (16.6)	7 (3.5)	0.033	<0.0001	0.0019
GSE42021 CD24HI VS CD24LOW TREG THYMUS DN	198	40 (20.2)	36 (18.2)	4 (2)	0.033	<0.0001	0.0019
GSE21546 UNSTIM VS ANTI CD3 STIM ELK1 KO DP THYMOC...	187	39 (20.9)	37 (19.8)	2 (1.1)	0.033	<0.0001	0.0019
GSE10325 CD4 TCELL VS LUPUS CD4 TCELL DN	198	39 (19.7)	38 (19.2)	1 (0.5)	0.032	<0.0001	0.0019
GSE19888 ADENOSINE A3R INH VS TCELL MEMBRANES ACT ...	199	39 (19.6)	34 (17.1)	5 (2.5)	0.032	<0.0001	0.0019
GSE19923 WT VS HEB AND E2A KO DP THYMOCYTE DN	200	39 (19.5)	35 (17.5)	4 (2)	0.032	<0.0001	0.0019

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GSE26890 CXCR1 NEG VS POS EFFECTOR CD8 TCELL UP	201	39 (19.4)	33 (16.4)	6 (3)	0.032	<0.0001	0.0019
GSE37605 FOXP3 FUSION GFP VS IRES GFP TREG C57BL6 ...	182	38 (20.9)	28 (15.4)	10 (5.5)	0.032	<0.0001	0.0019

Table 70: Enriched MSigDB Immunological Signatures (RP, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index. Top 50 results are listed.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
KEGG COMPLEMENT AND COAGULATION CASCADES	69	20 (29)	0 (0)	20 (29)	0.018	<0.0001	0.0062
KEGG GLYCOSYLPHOSPHATIDYLINOSITOL GPI ANCHOR BIOSY...	25	9 (36)	0 (0)	9 (36)	0.009	<0.0001	0.0062
KEGG STEROID BIOSYNTHESIS	17	8 (47.1)	0 (0)	8 (47.1)	0.008	<0.0001	0.0062
KEGG CYTOKINE CYTOKINE RECEPTOR INTERACTION	263	26 (9.9)	16 (6.1)	10 (3.8)	0.020	0.0002	0.0093
KEGG RIG I LIKE RECEPTOR SIGNALING PATHWAY	71	11 (15.5)	11 (15.5)	0 (0)	0.010	0.0013	0.0452
KEGG CYTOSOLIC DNA SENSING PATHWAY	55	8 (14.5)	8 (14.5)	0 (0)	0.007	0.0017	0.0452
KEGG PROXIMAL TUBULE BICARBONATE RECLAMATION	23	6 (26.1)	0 (0)	6 (26.1)	0.006	0.0015	0.0452
KEGG BIOSYNTHESIS OF UNSATURATED FATTY ACIDS	22	6 (27.3)	0 (0)	6 (27.3)	0.006	0.0023	0.0535

Table 71: Enriched MSigDB KEGG Pathways (RP, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO ACTIVE TRANSMEMBRANE TRANSPORTER ACTIVITY	353	44 (12.5)	3 (0.8)	41 (11.6)	0.032	<0.0001	0.0116
GO SECONDARY ACTIVE TRANSMEMBRANE TRANSPORTER ACTI...	231	30 (13)	2 (0.9)	28 (12.1)	0.024	<0.0001	0.0116
GO ORGANIC ANION TRANSMEMBRANE TRANSPORTER ACTIVIT...	175	27 (15.4)	2 (1.1)	25 (14.3)	0.023	<0.0001	0.0116
GO ORGANIC ACID TRANSMEMBRANE TRANSPORTER ACTIVITY	140	24 (17.1)	1 (0.7)	23 (16.4)	0.021	<0.0001	0.0116
GO LIPID TRANSPORTER ACTIVITY	108	18 (16.7)	1 (0.9)	17 (15.7)	0.016	<0.0001	0.0116
GO O ACYLTRANSFERASE ACTIVITY	48	12 (25)	2 (4.2)	10 (20.8)	0.011	<0.0001	0.0116
GO BILE ACID TRANSMEMBRANE TRANSPORTER ACTIVITY	15	6 (40)	0 (0)	6 (40)	0.006	<0.0001	0.0116
GO CXCR CHEMOKINE RECEPTOR BINDING	16	5 (31.2)	5 (31.2)	0 (0)	0.005	<0.0001	0.0116
GO MONOCARBOXYLIC ACID TRANSMEMBRANE TRANSPORTER A...	45	10 (22.2)	0 (0)	10 (22.2)	0.009	0.0002	0.0186
GO APOLIPOPROTEIN BINDING	15	6 (40)	1 (6.7)	5 (33.3)	0.006	0.0002	0.0186
GO ANION TRANSMEMBRANE TRANSPORTER ACTIVITY	290	34 (11.7)	3 (1)	31 (10.7)	0.026	0.0003	0.0232
GO CYTOKINE ACTIVITY	218	17 (7.8)	16 (7.3)	1 (0.5)	0.014	0.0003	0.0232
GO TRANSFERASE ACTIVITY TRANSFERRING ACYL GROUPS	247	28 (11.3)	5 (2)	23 (9.3)	0.022	0.0004	0.0286
GO ORGANIC HYDROXY COMPOUND TRANSMEMBRANE TRANSPOR...	59	11 (18.6)	0 (0)	11 (18.6)	0.010	0.0005	0.031
GO CHEMOKINE ACTIVITY	47	6 (12.8)	6 (12.8)	0 (0)	0.005	0.0005	0.031
GO HYDROLASE ACTIVITY HYDROLYZING O GLYCOSYL COMPO...	96	14 (14.6)	1 (1)	13 (13.5)	0.012	0.0006	0.0348
GO TRANSFERASE ACTIVITY TRANSFERRING ACYL GROUPS O...	210	24 (11.4)	3 (1.4)	21 (10)	0.019	0.0009	0.0418
GO SODIUM ION TRANSMEMBRANE TRANSPORTER ACTIVITY	136	19 (14)	1 (0.7)	18 (13.2)	0.016	0.0009	0.0418
GO SOLUTE SODIUM SYMPORTER ACTIVITY	51	10 (19.6)	0 (0)	10 (19.6)	0.009	0.0008	0.0418
GO PROTEIN SELF ASSOCIATION	44	9 (20.5)	6 (13.6)	3 (6.8)	0.008	0.0009	0.0418
GO MANNOSYLTRANSFERASE ACTIVITY	25	6 (24)	0 (0)	6 (24)	0.006	0.0011	0.0487
GO CARBOXYLIC ESTER HYDROLASE ACTIVITY	135	16 (11.9)	4 (3)	12 (8.9)	0.014	0.0014	0.0581

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
GO AMINO ACID TRANSMEMBRANE TRANSPORTER ACTIVITY	77	12 (15.6)	1 (1.3)	11 (14.3)	0.011	0.0015	0.0581
GO LRR DOMAIN BINDING	17	5 (29.4)	5 (29.4)	0 (0)	0.005	0.0015	0.0581
GO TRANSFERASE ACTIVITY TRANSFERRING GLYCOSYL GROU...	279	29 (10.4)	3 (1.1)	26 (9.3)	0.022	0.0016	0.0595
GO PEPTIDASE REGULATOR ACTIVITY	210	20 (9.5)	1 (0.5)	19 (9)	0.016	0.0017	0.0607
GO TRANSCRIPTION FACTOR ACTIVITY RNA POLYMERASE II...	328	32 (9.8)	32 (9.8)	0 (0)	0.024	0.0019	0.0609
GO SYMPORTER ACTIVITY	142	18 (12.7)	1 (0.7)	17 (12)	0.015	0.0019	0.0609
GO LEUCINE ZIPPER DOMAIN BINDING	11	4 (36.4)	4 (36.4)	0 (0)	0.004	0.0019	0.0609
GO OXIDOREDUCTASE ACTIVITY ACTING ON PAIRED DONORS...	153	18 (11.8)	2 (1.3)	16 (10.5)	0.015	0.0021	0.065
GO SOLUTE CATION SYMPORTER ACTIVITY	99	14 (14.1)	1 (1)	13 (13.1)	0.012	0.0023	0.0689
GO PEPTIDASE INHIBITOR ACTIVITY	173	16 (9.2)	1 (0.6)	15 (8.7)	0.013	0.0025	0.0726
GO CYTOKINE RECEPTOR BINDING	270	21 (7.8)	17 (6.3)	4 (1.5)	0.016	0.0029	0.077
GO ATPASE ACTIVITY COUPLED TO TRANSMEMBRANE MOVEME...	33	7 (21.2)	0 (0)	7 (21.2)	0.006	0.0028	0.077
GO CHEMOKINE RECEPTOR BINDING	56	6 (10.7)	6 (10.7)	0 (0)	0.005	0.0029	0.077
GO ENZYME INHIBITOR ACTIVITY	374	30 (8)	11 (2.9)	19 (5.1)	0.022	0.0031	0.08
GO MONOOXYGENASE ACTIVITY	93	12 (12.9)	1 (1.1)	11 (11.8)	0.011	0.0032	0.0803
GO RECEPTOR INHIBITOR ACTIVITY	12	4 (33.3)	2 (16.7)	2 (16.7)	0.004	0.0033	0.0807
GO HEPARIN BINDING	157	17 (10.8)	6 (3.8)	11 (7)	0.014	0.0038	0.0905

Table 72: Enriched MSigDB Molecular Functions (RP, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME METABOLISM OF LIPIDS AND LIPOPROTEINS	472	59 (12.5)	8 (1.7)	51 (10.8)	0.040	<0.0001	0.0096
REACTOME INTERFERON SIGNALING	153	24 (15.7)	23 (15)	1 (0.7)	0.020	<0.0001	0.0096
REACTOME INTERFERON ALPHA BETA SIGNALING	62	18 (29)	18 (29)	0 (0)	0.017	<0.0001	0.0096
REACTOME RIG I MDA5 MEDIATED INDUCTION OF IFN ALPH...	72	15 (20.8)	15 (20.8)	0 (0)	0.014	<0.0001	0.0096
REACTOME FORMATION OF FIBRIN CLOT CLOTTING CASCADE	32	10 (31.2)	0 (0)	10 (31.2)	0.009	<0.0001	0.0096
REACTOME LIPOPROTEIN METABOLISM	28	9 (32.1)	1 (3.6)	8 (28.6)	0.008	<0.0001	0.0096
REACTOME COMMON PATHWAY	14	6 (42.9)	0 (0)	6 (42.9)	0.006	<0.0001	0.0096
REACTOME AMINO ACID AND OLIGOPEPTIDE SLC TRANSPORT...	49	12 (24.5)	2 (4.1)	10 (20.4)	0.011	0.0002	0.0112
REACTOME CHEMOKINE RECEPTORS BIND CHEMOKINES	54	9 (16.7)	7 (13)	2 (3.7)	0.008	0.0002	0.0112
REACTOME CHOLESTEROL BIOSYNTHESIS	22	7 (31.8)	0 (0)	7 (31.8)	0.007	0.0002	0.0112
REACTOME HDL MEDIATED LIPID TRANSPORT	15	6 (40)	1 (6.7)	5 (33.3)	0.006	0.0002	0.0112
REACTOME RECYCLING OF BILE ACIDS AND SALTS	11	5 (45.5)	0 (0)	5 (45.5)	0.005	0.0002	0.0112
REACTOME POST TRANSLATIONAL MODIFICATION SYNTHESIS...	26	8 (30.8)	0 (0)	8 (30.8)	0.007	0.0004	0.0193
REACTOME TRANSPORT OF ORGANIC ANIONS	11	5 (45.5)	0 (0)	5 (45.5)	0.005	0.0004	0.0193
REACTOME POST TRANSLATIONAL PROTEIN MODIFICATION	183	26 (14.2)	1 (0.5)	25 (13.7)	0.022	0.0005	0.0225
REACTOME BILE ACID AND BILE SALT METABOLISM	27	7 (25.9)	0 (0)	7 (25.9)	0.007	0.0006	0.0253
REACTOME LIPID DIGESTION MOBILIZATION AND TRANSPOR...	45	9 (20)	1 (2.2)	8 (17.8)	0.008	0.0007	0.0278
REACTOME NEGATIVE REGULATORS OF RIG I MDA5 SIGNALI...	30	8 (26.7)	8 (26.7)	0 (0)	0.007	0.0008	0.03
REACTOME TRAF3 DEPENDENT IRF ACTIVATION PATHWAY	14	5 (35.7)	5 (35.7)	0 (0)	0.005	0.0013	0.0461
REACTOME GLYCOSPHINGOLIPID METABOLISM	37	8 (21.6)	1 (2.7)	7 (18.9)	0.007	0.0015	0.0505
REACTOME SLC MEDIATED TRANSMEMBRANE TRANSPORT	241	30 (12.4)	2 (0.8)	28 (11.6)	0.024	0.0016	0.0513
REACTOME AMINO ACID TRANSPORT ACROSS THE PLASMA ME...	31	8 (25.8)	1 (3.2)	7 (22.6)	0.007	0.0018	0.0551
REACTOME INNATE IMMUNE SYSTEM	269	26 (9.7)	19 (7.1)	7 (2.6)	0.020	0.0027	0.07

Gene Set Name	Gene Set Genes #	DE Genes N (%)	Up-reg. DE Genes N (%)	Down-reg. DE Genes N (%)	Jaccard Index	P-Value	FDR Adjusted P-Value
REACTOME PEPTIDE LIGAND BINDING RECEPTORS	184	15 (8.2)	7 (3.8)	8 (4.3)	0.012	0.0024	0.07
REACTOME GLYCEROPHOSPHOLIPID BIOSYNTHESIS	82	13 (15.9)	2 (2.4)	11 (13.4)	0.012	0.0027	0.07
REACTOME PTM GAMMA CARBOXYLATION HYPSINE FORMATIO...	26	6 (23.1)	1 (3.8)	5 (19.2)	0.006	0.0025	0.07
REACTOME CYTOKINE SIGNALING IN IMMUNE SYSTEM	263	29 (11)	26 (9.9)	3 (1.1)	0.023	0.0034	0.0842
REACTOME INTERFERON GAMMA SIGNALING	59	10 (16.9)	10 (16.9)	0 (0)	0.009	0.0035	0.0842
REACTOME TRANSPORT OF INORGANIC CATIONS ANIONS AND...	93	15 (16.1)	2 (2.2)	13 (14)	0.013	0.0039	0.087
REACTOME RESPONSE TO ELEVATED PLATELET CYTOSOLIC C...	81	12 (14.8)	0 (0)	12 (14.8)	0.011	0.0038	0.087
REACTOME TRANSPORT OF VITAMINS NUCLEOSIDES AND REL...	32	7 (21.9)	0 (0)	7 (21.9)	0.006	0.004	0.087
REACTOME TRIGLYCERIDE BIOSYNTHESIS	38	8 (21.1)	0 (0)	8 (21.1)	0.007	0.0044	0.0899
REACTOME ACTIVATION OF IRF3 IRF7 MEDIATED BY TBK1 ...	13	4 (30.8)	4 (30.8)	0 (0)	0.004	0.0044	0.0899

Table 73: Enriched MSigDB Reactome Pathways (RP, Huh7, ER, 40h PI). Results are sorted by FDR adjusted p-value and Jaccard similarity index.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000279123		novel transcript	TEC	9.45			+/LE	
ENSG00000201644			misc RNA	5.96			+/LE	

Table 74: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (cytosol, 6h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	misc RNA	3.82			+/LE	

Table 75: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (cytosol, 12h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000225455	TPI1P4	triosephosphate isomerase 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:38071]	processed pseudogene	-5.94	-0.79	5.15	-/NS	
ENSG00000135127	BICDL1	BICD family like cargo adaptor 1 [Source:HGNC Symbol;Acc:HGNC:28095]	protein coding	-2.42	0.27	2.69	-/NS	
ENSG00000213574	LDHAP5	lactate dehydrogenase A pseudogene [Source:HGNC Symbol;Acc:HGNC:6540]	processed pseudogene	-3.19	-0.85	2.35	-/NS	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	2.02	3.73	1.70	+/+	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	2.28	3.97	1.69	+/NS	
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	6.57	8.08	1.51	+/+	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	4.61	6.06	1.45	+/+	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	1.73	2.98	1.25	NS/+	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	2.12	3.30	1.17	+/+	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	2.52	3.14	0.62	+/+	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	2.34	2.95	0.61	+/+	
ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	3.72	4.28	0.56	+/+	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	2.25	2.79	0.54	+/NS	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	2.34	2.84	0.51	+/NS	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	2.80	3.31	0.51	+/NS	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	3.56	3.95	0.38	+/+	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	2.56	2.73	0.17	+/NS	
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	2.72	2.70	-0.01	+/NS	
ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	6.03	5.95	-0.08	+/NS	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	2.06	1.92	-0.14	+/NS	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	2.19	1.86	-0.33	+/NS	
ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]	protein coding	2.04	1.58	-0.46	+/NS	
ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]	protein coding	2.29	1.74	-0.55	+/NS	
ENSG00000113811	SELENOK	selenoprotein K [Source:HGNC Symbol;Acc:HGNC:30394]	protein coding	2.10	1.52	-0.58	+/NS	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	3.92	3.29	-0.63	+/NS	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	2.05	1.38	-0.67	+/NS	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	2.97	2.26	-0.71	+/NS	
ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]	protein coding	2.48	1.71	-0.77	+/NS	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	2.27	1.46	-0.81	+/NS	
ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]	protein coding	2.41	1.58	-0.83	+/NS	
ENSG00000169359	SLC33A1	solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95]	protein coding	2.35	1.41	-0.94	+/NS	
ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]	protein coding	2.48	1.50	-0.98	+/NS	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	2.10	1.04	-1.05	+/NS	

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ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	4.79	3.72	-1.07	+/NS	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	2.12	1.04	-1.07	+/NS	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudogene	4.53	3.46	-1.08	+/NS	
ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]	protein coding	2.46	1.28	-1.19	+/NS	
ENSG00000147852	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]	protein coding	2.27	1.08	-1.19	+/NS	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	2.59	1.39	-1.20	+/NS	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	3.20	1.96	-1.24	+/NS	
ENSG00000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]	protein coding	2.20	0.93	-1.27	+/NS	
ENSG00000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	protein coding	2.03	0.73	-1.30	+/NS	
ENSG00000149428	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]	protein coding	2.78	1.48	-1.30	+/NS	
ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]	protein coding	2.36	1.06	-1.30	+/NS	
ENSG00000120519	SLC10A7	solute carrier family 10 member 7 [Source:HGNC Symbol;Acc:HGNC:23088]	protein coding	2.10	0.77	-1.33	+/NS	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	6.27	4.93	-1.34	+/NS	
ENSG00000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]	protein coding	2.39	0.99	-1.39	+/NS	
ENSG00000239224	RN7SL546P	RNA, 7SL, cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]	misc RNA	2.03	0.62	-1.40	+/NS	
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	2.71	1.29	-1.42	+/NS	
ENSG0000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	4.98	3.49	-1.49	+/NS	
ENSG00000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]	protein coding	2.13	0.64	-1.50	+/NS	
ENSG00000172071	EIF2AK3	eukaryotic translation initiation factor 2 alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]	protein coding	2.44	0.94	-1.50	+/NS	
ENSG00000147649	MTDH	metadherin [Source:HGNC Symbol;Acc:HGNC:29608]	protein coding	2.42	0.89	-1.53	+/NS	
ENSG00000131871	SELENOS	selenoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]	protein coding	2.82	1.27	-1.55	+/NS	
ENSG00000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]	protein coding	2.49	0.90	-1.59	+/NS	

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ENSG00000134970	TMED7	transmembrane p24 trafficking protein 7 [Source:HGNC Symbol;Acc:HGNC:24253]	protein coding	2.40	0.79	-1.61	+/NS	
ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	protein coding	2.13	0.52	-1.61	+/NS	
ENSG0000067167	TRAM1	translocation associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:20568]	protein coding	2.01	0.37	-1.63	+/NS	
ENSG0000008311	AASS	aminoacidate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]	protein coding	2.12	0.44	-1.68	+/NS	
ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]	protein coding	2.14	0.40	-1.74	+/NS	
ENSG00000157637	SLC38A10	solute carrier family 38 member 10 [Source:HGNC Symbol;Acc:HGNC:28237]	protein coding	2.11	0.36	-1.74	+/NS	
ENSG0000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]	protein coding	2.15	0.41	-1.75	+/NS	
ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma 1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	protein coding	3.64	1.89	-1.75	+/NS	
ENSG00000280670	CCDC163	coiled-coil domain containing 163 [Source:HGNC Symbol;Acc:HGNC:27003]	protein coding	2.96	1.20	-1.76	+/NS	
ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	protein coding	2.85	1.09	-1.76	+/NS	
ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]	protein coding	2.77	1.00	-1.76	+/NS	
ENSG00000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]	protein coding	2.27	0.48	-1.79	+/NS	
ENSG00000149485	FADS1	fatty acid desaturase 1 [Source:HGNC Symbol;Acc:HGNC:3574]	protein coding	2.16	0.35	-1.81	+/NS	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	2.81	0.94	-1.87	+/NS	
ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]	protein coding	2.12	0.22	-1.90	+/NS	
ENSG00000117500	TMED5	transmembrane p24 trafficking protein 5 [Source:HGNC Symbol;Acc:HGNC:24251]	protein coding	2.35	0.44	-1.91	+/NS	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	4.76	2.84	-1.91	+/NS	
ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]	protein coding	2.89	0.95	-1.93	+/NS	
ENSG00000164815	ORC5	origin recognition complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:8491]	protein coding	2.05	0.11	-1.94	+/NS	
ENSG00000162407	PLPP3	phospholipid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:9229]	protein coding	2.41	0.43	-1.98	+/NS	
ENSG00000118217	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:791]	protein coding	2.05	0.06	-1.99	+/NS	
ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]	protein coding	2.15	0.14	-2.00	+/NS	
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	6.07	4.05	-2.01	+/NS	

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ENSG00000124783	SSR1	signal sequence receptor subunit 1 [Source:HGNC Symbol;Acc:HGNC:11323]	protein coding	2.02	-0.00	-2.03	+/NS	
ENSG00000071537	SEL1L	SEL1L, ERAD E3 ligase adaptor subunit [Source:HGNC Symbol;Acc:HGNC:10717]	protein coding	2.63	0.59	-2.04	+/NS	
ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]	protein coding	2.07	0.02	-2.05	+/NS	
ENSG00000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]	protein coding	2.00	-0.11	-2.11	+/NS	
ENSG000000100532	CGRRF1	cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:HGNC:15528]	protein coding	2.68	0.57	-2.11	+/NS	
ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]	protein coding	3.08	0.96	-2.12	+/NS	
ENSG00000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]	protein coding	2.05	-0.11	-2.16	+/NS	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	4.43	2.22	-2.21	+/NS	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	3.18	0.97	-2.21	+/NS	
ENSG00000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]	protein coding	2.47	0.25	-2.22	+/NS	
ENSG00000134285	FKBP11	FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:18624]	protein coding	2.25	0.03	-2.22	+/NS	
ENSG00000128590	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC Symbol;Acc:HGNC:6968]	protein coding	3.82	1.59	-2.23	+/NS	
ENSG0000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	protein coding	2.32	0.05	-2.27	+/NS	
ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]	protein coding	2.23	-0.05	-2.29	+/NS	
ENSG00000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]	protein coding	2.21	-0.08	-2.29	+/NS	
ENSG00000164266	SPINK1	serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11244]	protein coding	2.21	-0.10	-2.30	+/NS	
ENSG00000143870	PDIA6	protein disulfide isomerase family A member 6 [Source:HGNC Symbol;Acc:HGNC:30168]	protein coding	2.37	0.05	-2.32	+/NS	
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	protein coding	3.35	1.01	-2.34	+/NS	
ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	protein coding	2.16	-0.20	-2.36	+/NS	
ENSG00000157181	ODR4	odr-4 GPCR localization factor homolog [Source:HGNC Symbol;Acc:HGNC:24299]	protein coding	2.83	0.44	-2.40	+/NS	
ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]	protein coding	2.07	-0.35	-2.42	+/NS	
ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]	protein coding	2.61	0.18	-2.43	+/NS	
ENSG00000118523	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:2500]	protein coding	2.26	-0.21	-2.47	+/NS	
ENSG00000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]	protein coding	3.42	0.95	-2.48	+/NS	

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ENSG00000074695	LMAN1	lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:6631]	protein coding	2.34	-0.16	-2.51	+/NS	
ENSG00000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]	protein coding	2.38	-0.14	-2.52	+/NS	
ENSG0000120697	ALG5	ALG5, dolichyl-phosphate beta-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20266]	protein coding	2.69	0.15	-2.54	+/NS	
ENSG0000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]	protein coding	2.52	-0.03	-2.55	+/NS	
ENSG0000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	protein coding	2.48	-0.07	-2.55	+/NS	
ENSG0000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]	protein coding	2.05	-0.52	-2.56	+/NS	
ENSG0000104805	NUCB1	nucleobindin 1 [Source:HGNC Symbol;Acc:HGNC:8043]	protein coding	2.76	0.16	-2.59	+/NS	
ENSG0000145730	PAM	peptidylglycine alpha-amidating monoxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	protein coding	2.20	-0.39	-2.60	+/NS	
ENSG0000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]	protein coding	3.51	0.91	-2.60	+/NS	
ENSG0000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	7.90	5.29	-2.61	+/+	
ENSG0000023318	ERP44	endoplasmic reticulum protein 44 [Source:HGNC Symbol;Acc:HGNC:18311]	protein coding	2.53	-0.12	-2.64	+/NS	
ENSG0000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]	protein coding	2.33	-0.33	-2.66	+/NS	
ENSG0000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]	protein coding	2.06	-0.60	-2.66	+/NS	
ENSG0000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	protein coding	3.75	1.08	-2.66	+/NS	
ENSG0000106397	PLOD3	procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]	protein coding	2.37	-0.33	-2.70	+/NS	
ENSG0000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	6.10	3.39	-2.71	+/NS	
ENSG0000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	protein coding	2.05	-0.66	-2.71	+/NS	
ENSG0000140391	TSPAN3	tetraspanin 3 [Source:HGNC Symbol;Acc:HGNC:17752]	protein coding	2.05	-0.67	-2.72	+/NS	
ENSG0000101856	PGRMC1	progesterone receptor membrane component 1 [Source:HGNC Symbol;Acc:HGNC:16090]	protein coding	2.15	-0.58	-2.72	+/NS	
ENSG0000155660	PDIA4	protein disulfide isomerase family A member 4 [Source:HGNC Symbol;Acc:HGNC:30167]	protein coding	3.39	0.66	-2.73	+/NS	
ENSG0000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]	protein coding	2.42	-0.34	-2.75	+/NS	
ENSG0000131507	NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:17592]	protein coding	2.38	-0.38	-2.77	+/NS	
ENSG0000112697	TMEM30A	transmembrane protein 30A [Source:HGNC Symbol;Acc:HGNC:16667]	protein coding	2.23	-0.56	-2.79	+/NS	
ENSG0000147257	GPC3	glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]	protein coding	2.01	-0.79	-2.81	+/NS	
ENSG0000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	6.31	3.49	-2.82	+/NS	

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ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	protein coding	2.19	-0.65	-2.84	+/NS	
ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]	protein coding	2.19	-0.67	-2.86	+/NS	
ENSG00000123384	LRP1	LDL receptor related protein 1 [Source:HGNC Symbol;Acc:HGNC:6692]	protein coding	2.38	-0.48	-2.86	+/NS	
ENSG00000136986	DERL1	derlin 1 [Source:HGNC Symbol;Acc:HGNC:28454]	protein coding	2.33	-0.57	-2.89	+/NS	
ENSG00000164733	CTSB	cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]	protein coding	2.13	-0.78	-2.91	+/NS	
ENSG00000166794	PPIB	peptidyl prolyl isomerase B [Source:HGNC Symbol;Acc:HGNC:9255]	protein coding	2.78	-0.14	-2.92	+/NS	
ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	protein coding	3.50	0.55	-2.95	+/NS	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	5.10	2.15	-2.95	+/NS	
ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]	protein coding	2.04	-0.93	-2.97	+/NS	
ENSG00000152749	GPR180	G protein-coupled receptor 180 [Source:HGNC Symbol;Acc:HGNC:28899]	protein coding	2.54	-0.47	-3.00	+/NS	
ENSG00000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]	protein coding	2.44	-0.56	-3.00	+/NS	
ENSG00000182220	ATP6AP2	ATPase H ⁺ transporting accessory protein 2 [Source:HGNC Symbol;Acc:HGNC:18305]	protein coding	2.23	-0.79	-3.02	+/NS	
ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]	protein coding	3.09	0.07	-3.02	+/NS	
ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]	protein coding	2.05	-0.98	-3.03	+/NS	
ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]	protein coding	3.26	0.23	-3.03	+/NS	
ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]	protein coding	2.15	-0.89	-3.04	+/NS	
ENSG00000115380	EFEMP1	EGF containing fibulin extracellular matrix protein 1 [Source:HGNC Symbol;Acc:HGNC:3218]	protein coding	2.07	-0.99	-3.07	+/NS	
ENSG00000177058	SLC38A9	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]	protein coding	2.48	-0.60	-3.08	+/NS	
ENSG00000111897	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:HGNC:13464]	protein coding	2.22	-0.85	-3.08	+/NS	
ENSG00000044574	HSPA5	heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238]	protein coding	3.17	0.08	-3.09	+/NS	
ENSG00000145050	MANF	mesencephalic astrocyte derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:15461]	protein coding	4.23	1.10	-3.13	+/NS	
ENSG00000071553	ATP6AP1	ATPase H ⁺ transporting accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:868]	protein coding	3.35	0.22	-3.13	+/NS	
ENSG0000012174	MBTPS2	membrane bound transcription factor peptidase, site 2 [Source:HGNC Symbol;Acc:HGNC:15455]	protein coding	2.34	-0.81	-3.15	+/NS	
ENSG00000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]	protein coding	3.10	-0.05	-3.15	+/NS	
ENSG00000135677	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4422]	protein coding	2.88	-0.28	-3.16	+/NS	

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ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]	Sym-	protein coding	2.78	-0.39	-3.17	+/NS		
ENSG00000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]		protein coding	2.63	-0.54	-3.17	+/NS		
ENSG00000108588	CCDC47	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]		protein coding	2.42	-0.76	-3.18	+/NS		
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]		protein coding	6.28	3.04	-3.24	+/NS		
ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]		protein coding	2.95	-0.32	-3.27	+/NS		
ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]		protein coding	2.11	-1.17	-3.28	+/NS		
ENSG00000168938	PPIC	peptidyl prolyl isomerase C [Source:HGNC Symbol;Acc:HGNC:9256]		protein coding	2.63	-0.67	-3.29	+/NS		
ENSG00000153132	CLGN	calmegin [Source:HGNC Symbol;Acc:HGNC:2060]		protein coding	3.53	0.24	-3.30	+/NS		
ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]		protein coding	2.05	-1.30	-3.35	+/NS		
ENSG00000106927	AMBP	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]		protein coding	2.32	-1.04	-3.36	+/NS		
ENSG00000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]		protein coding	3.40	0.04	-3.36	+/NS		
ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]		protein coding	3.11	-0.26	-3.37	+/NS		
ENSG00000118271	TTR	transthyretin [Source:HGNC Symbol;Acc:HGNC:12405]	Sym-	protein coding	2.45	-0.93	-3.38	+/NS		
ENSG00000275090	RN7SL296P	RNA, 7SL, cytoplasmic 296, pseudogene [Source:HGNC Symbol;Acc:HGNC:46312]		misc RNA	3.40	0.00	-3.39	+/NS		
ENSG00000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]		protein coding	2.51	-0.90	-3.41	+/NS		
ENSG00000001630	CYP51A1	cytochrome P450 family 51 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2649]		protein coding	2.76	-0.66	-3.42	+/NS		
ENSG00000068697	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]		protein coding	2.97	-0.52	-3.49	+/NS		
ENSG00000244038	DDOST	dolichyl-diphosphooligosaccharide-protein glycosyl-transferase non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:2728]		protein coding	3.20	-0.31	-3.51	+/NS		
ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	Sym-	protein coding	3.03	-0.50	-3.53	+/NS		
ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]		protein coding	3.64	0.09	-3.55	+/NS		
ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]		protein coding	2.64	-0.98	-3.61	+/NS		
ENSG00000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]		processed pseudogene	3.74	0.11	-3.63	+/NS		
ENSG00000133135	RNF128	ring finger protein 128, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:HGNC:21153]		protein coding	3.03	-0.64	-3.67	+/NS		

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	protein coding	2.63	-1.05	-3.68	+/NS	
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	protein coding	7.10	3.41	-3.68	+/NS	
ENSG00000125304	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11865]	protein coding	2.67	-1.05	-3.72	+/NS	
ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	protein coding	3.14	-0.59	-3.73	+/NS	
ENSG00000132031	MATN3	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]	protein coding	2.96	-0.78	-3.73	+/NS	
ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]	protein coding	2.73	-1.10	-3.82	+/NS	
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	protein coding	2.92	-0.94	-3.85	+/NS	
ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	protein coding	3.24	-0.63	-3.87	+/NS	
ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]	protein coding	3.04	-0.83	-3.87	+/NS	
ENSG00000135404	CD63	CD63 molecule [Source:HGNC Symbol;Acc:HGNC:1692]	protein coding	2.94	-0.93	-3.87	+/NS	
ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]	protein coding	2.90	-0.98	-3.89	+/NS	
ENSG00000142192	APP	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]	protein coding	3.15	-0.78	-3.94	+/NS	
ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]	protein coding	2.83	-1.14	-3.97	+/NS	
ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]	protein coding	3.65	-0.34	-3.98	+/NS	
ENSG00000197746	PSAP	prosaposin [Source:HGNC Symbol;Acc:HGNC:9498]	protein coding	3.33	-0.69	-4.02	+/NS	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	7.35	3.32	-4.03	+/NS	
ENSG00000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]	protein coding	2.94	-1.10	-4.04	+/NS	
ENSG0000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]	protein coding	3.16	-0.90	-4.06	+/NS	
ENSG00000167004	PDIA3	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	protein coding	3.46	-0.64	-4.10	+/NS	
ENSG00000155304	HSPA13	heat shock protein family A (Hsp70) member 13 [Source:HGNC Symbol;Acc:HGNC:11375]	protein coding	4.43	0.30	-4.12	+/NS	
ENSG00000038002	AGA	aspartylglucosaminidase [Source:HGNC Symbol;Acc:HGNC:318]	protein coding	4.64	0.41	-4.23	+/NS	
ENSG00000187688	TRPV2	transient receptor potential cation channel subfamily V member 2 [Source:HGNC Symbol;Acc:HGNC:18082]	protein coding	3.07	-1.18	-4.25	+/NS	
ENSG00000229314	ORM1	orosomucoid 1 [Source:HGNC Symbol;Acc:HGNC:8498]	protein coding	3.71	-0.73	-4.44	+/NS	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]	protein coding	4.28	-0.23	-4.51	+/NS	
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	protein coding	4.39	-0.48	-4.87	+/NS	
ENSG00000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]	protein coding	6.20	1.02	-5.18	+/NS	
ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	protein coding	6.14	0.78	-5.36	+/NS	
ENSG00000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]	protein coding	6.07	0.42	-5.65	+/NS	
ENSG00000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]	protein coding	6.80	0.61	-6.18	+/NS	
ENSG00000115902	SLC1A4	solute carrier family 1 member 4 [Source:HGNC Symbol;Acc:HGNC:10942]	protein coding	8.28	2.09	-6.19	+/NS	
ENSG00000110013	SIAE	sialic acid acetyltransferase [Source:HGNC Symbol;Acc:HGNC:18187]	protein coding	5.90	-1.12	-7.01	+/NS	
ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	protein coding	7.00	-1.08	-8.08	+/NS	
ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	protein coding	6.42	-1.70	-8.12	+/NS	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	8.58	-0.24	-8.82	+/NS	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-6.49			-/LE	
ENSG00000278701			misc RNA	-6.37			-/LE	
ENSG00000169131	ZNF354A	zinc finger protein 354A [Source:HGNC Symbol;Acc:HGNC:11628]	protein coding	5.93			+/LE	
ENSG00000228439	TSTD3	thiosulfate sulfurtransferase like domain containing 3 [Source:HGNC Symbol;Acc:HGNC:40910]	protein coding	5.89			+/LE	
ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	misc RNA	4.16			+/LE	

Table 76: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (cytosol, 24h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000204316	MRPL38	mitochondrial ribosomal protein L38 [Source:HGNC Symbol;Acc:HGNC:14033]	protein coding	-5.27	1.71	6.97	-/NS	
ENSG00000198088	NUP62CL	nucleoporin 62 C-terminal like [Source:HGNC Symbol;Acc:HGNC:25960]	protein coding	-5.25	0.84	6.10	-/NS	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description		Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]	Sym-	protein coding	0.31	5.87	5.56	NS/+	
ENSG00000099999	RNF215	ring finger protein 215 [Source:HGNC Symbol;Acc:HGNC:33434]	Sym-	protein coding	-5.07	0.39	5.47	-/NS	
ENSG00000157470	FAM81A	family with sequence similarity 81 member A [Source:HGNC Symbol;Acc:HGNC:28379]		protein coding	-5.74	-0.43	5.31	-/NS	
ENSG00000225455	TPI1P4	triosephosphate isomerase 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:38071]		processed pseudogene	-5.06	0.24	5.31	-/NS	
ENSG00000257907	EEF1A1P17	eukaryotic translation elongation factor 1 alpha 1 pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37890]		processed pseudogene	-5.13	0.14	5.27	-/NS	
ENSG00000108602	ALDH3A1	aldehyde dehydrogenase 3 family member A1 [Source:HGNC Symbol;Acc:HGNC:405]		protein coding	-5.29	-0.07	5.22	-/NS	
ENSG00000229598	PRDX3P1	peroxiredoxin 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39264]		processed pseudogene	-5.40	-0.69	4.70	-/NS	
ENSG00000200807	RNU1-32P	RNA, U1 small nuclear 32, pseudogene [Source:HGNC Symbol;Acc:HGNC:48374]		snRNA	0.07	4.62	4.56	NS/+	
ENSG00000236449		novel transcript, antisense to WIF1 and CHRNA1		antisense	-5.15	-0.71	4.44	-/NS	
ENSG0000070718	AP3M2	adaptor related protein complex 3 subunit mu 2 [Source:HGNC Symbol;Acc:HGNC:570]		protein coding	-6.14	-1.82	4.32	-/NS	
ENSG00000177350	RPL13AP3	ribosomal protein L13a pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:23539]		transcribed processed pseudogene	-4.98	-0.69	4.29	-/NS	
ENSG00000223467	CALM1P1	calmodulin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:1443]		processed pseudogene	-5.07	-0.88	4.19	-/NS	
ENSG00000258429	PDF	peptide deformylase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:30012]		protein coding	-2.03	2.13	4.16	-/NS	
ENSG00000179460	EEF1A1P27	eukaryotic translation elongation factor 1 alpha 1 pseudogene 27 [Source:HGNC Symbol;Acc:HGNC:37900]		processed pseudogene	-4.91	-0.81	4.10	-/NS	
ENSG00000260804	LINC01963	long intergenic non-protein coding RNA 1963 [Source:HGNC Symbol;Acc:HGNC:25283]		lincRNA	-5.78	-1.71	4.06	-/NS	
ENSG00000244331		ribosomal protein, large, P2 (RPLP2) pseudogene		processed pseudogene	-3.64	0.24	3.87	-/NS	
ENSG00000186076		phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene		processed pseudogene	-3.42	0.04	3.46	-/NS	
ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]		protein coding	1.97	5.42	3.46	NS/+	
ENSG00000202347	RNU1-16P	RNA, U1 small nuclear 16, pseudogene [Source:HGNC Symbol;Acc:HGNC:39890]		snRNA	-0.10	3.22	3.32	NS/+	
ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]		protein coding	3.17	6.38	3.21	+/+	
ENSG00000164002	EXO5	exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:26115]	Sym-	protein coding	-2.59	0.47	3.07	-/NS	
ENSG0000023892	DEF6	DEF6, guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:2760]		protein coding	-3.37	-0.33	3.04	-/NS	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic 128, pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]	misc RNA	0.11	3.14	3.03	NS/+	
ENSG00000232838	PET117	PET117 homolog [Source:HGNC Symbol;Acc:HGNC:40045]	protein coding	-3.32	-0.40	2.93	-/NS	
ENSG00000214199	EEF1A1P12	eukaryotic translation elongation factor 1 alpha 1 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:3195]	processed pseudogene	-2.85	-0.08	2.77	-/NS	
ENSG00000124243	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:HGNC:14367]	protein coding	-3.04	-0.34	2.69	-/NS	
ENSG00000181218	HIST3H2A	histone cluster 3 H2A [Source:HGNC Symbol;Acc:HGNC:20507]	protein coding	1.99	4.68	2.69	NS/+	
ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	protein coding	5.09	7.75	2.67	+/+	
ENSG00000002330	BAD	BCL2 associated agonist of cell death [Source:HGNC Symbol;Acc:HGNC:936]	protein coding	-2.57	0.03	2.60	-/NS	
ENSG00000261227		novel transcript	lincRNA	1.92	4.51	2.59	NS/+	
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	2.08	4.61	2.53	+/+	
ENSG00000167705	RILP	Rab interacting lysosomal protein [Source:HGNC Symbol;Acc:HGNC:30266]	protein coding	-2.42	0.11	2.52	-/NS	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	1.58	4.07	2.49	NS/+	
ENSG00000105173	CCNE1	cyclin E1 [Source:HGNC Symbol;Acc:HGNC:1589]	protein coding	-3.42	-1.02	2.40	-/NS	
ENSG00000137825	ITPKA	inositol-trisphosphate 3-kinase A [Source:HGNC Symbol;Acc:HGNC:6178]	protein coding	-2.37	0.03	2.40	-/NS	
ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	lincRNA	1.70	4.10	2.40	NS/+	
ENSG00000105289	TJP3	tight junction protein 3 [Source:HGNC Symbol;Acc:HGNC:11829]	protein coding	-3.27	-0.89	2.38	-/NS	
ENSG00000187720	THSD4	thrombospondin type 1 domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25835]	protein coding	2.28	4.61	2.33	NS/+	
ENSG00000104866	PPP1R37	protein phosphatase 1 regulatory subunit 37 [Source:HGNC Symbol;Acc:HGNC:27607]	protein coding	0.10	2.38	2.29	NS/+	
ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	protein coding	2.03	4.31	2.28	+/+	
ENSG00000268222	EEF1A1P7	eukaryotic translation elongation factor 1 alpha 1 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:3202]	processed pseudogene	-2.16	0.06	2.22	-/NS	
ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	protein coding	4.69	6.90	2.21	NS/+	
ENSG00000250182	EEF1A1P13	eukaryotic translation elongation factor 1 alpha 1 pseudogene 13 [Source:HGNC Symbol;Acc:HGNC:3196]	processed pseudogene	-2.41	-0.21	2.20	-/NS	
ENSG00000196642	RABL6	RAB, member RAS oncogene family like 6 [Source:HGNC Symbol;Acc:HGNC:24703]	protein coding	-2.40	-0.20	2.20	-/NS	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RNA-Seq, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	lincRNA	-2.78	-0.59	2.19	-/NS	
ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	protein coding	3.37	5.55	2.17	+/-	
ENSG00000207340	RNU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	snRNA	2.62	4.77	2.15	+/-	
ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]	protein coding	1.78	3.90	2.12	NS/+	
ENSG00000197937	ZNF347	zinc finger protein 347 [Source:HGNC Symbol;Acc:HGNC:16447]	protein coding	-2.09	0.03	2.12	-/NS	
ENSG00000213190	MLLT11	MLLT11, transcription factor 7 cofactor [Source:HGNC Symbol;Acc:HGNC:16997]	protein coding	-2.56	-0.44	2.12	-/NS	
ENSG00000141994	DUS3L	dihydrouridine synthase 3 like [Source:HGNC Symbol;Acc:HGNC:26920]	protein coding	0.70	2.80	2.10	NS/+	
ENSG00000228956	SATB1-AS1	SATB1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50687]	processed transcript	-3.29	-1.19	2.10	-/NS	
ENSG00000165389	SPTSSA	serine palmitoyltransferase small subunit A [Source:HGNC Symbol;Acc:HGNC:20361]	protein coding	-2.07	0.02	2.09	-/NS	
ENSG00000123095	BHLHE41	basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]	protein coding	1.88	3.96	2.08	NS/+	
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	9.10	11.18	2.08	+/-	
ENSG00000180921	FAM83H	family with sequence similarity 83 member H [Source:HGNC Symbol;Acc:HGNC:24797]	protein coding	-2.30	-0.22	2.07	-/NS	
ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta [Source:HGNC Symbol;Acc:HGNC:9310]	protein coding	1.12	3.15	2.03	NS/+	
ENSG00000225200		ribosomal protein S8 (RPS8) pseudogene	processed pseudogene	-2.12	-0.09	2.03	-/NS	
ENSG00000179604	CDC42EP4	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]	protein coding	-2.37	-0.35	2.02	-/NS	
ENSG00000196739	COL27A1	collagen type XXVII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22986]	protein coding	-2.02	-0.00	2.02	-/NS	
ENSG00000076555	ACACB	acetyl-CoA carboxylase beta [Source:HGNC Symbol;Acc:HGNC:85]	protein coding	-2.72	-0.71	2.01	-/NS	
ENSG00000196628	TCF4	transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:11634]	protein coding	-2.59	-0.59	2.01	-/NS	
ENSG00000141738	GRB7	growth factor receptor bound protein 7 [Source:HGNC Symbol;Acc:HGNC:4567]	protein coding	-3.30	-1.31	1.99	-/NS	
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	protein coding	3.00	4.97	1.97	+/-	
ENSG00000213866	YBX1P10	Y-box binding protein 1 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:42432]	processed pseudogene	-2.48	-0.52	1.96	-/NS	
ENSG00000132879	FBXO44	F-box protein 44 [Source:HGNC Symbol;Acc:HGNC:24847]	protein coding	-2.40	-0.46	1.94	-/NS	
ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]	protein coding	-2.46	-0.52	1.93	-/NS	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000134897	BIVM	basic, immunoglobulin-like variable motif containing [Source:HGNC Symbol;Acc:HGNC:16034]	protein coding	-2.79	-0.88	1.91	-/NS	
ENSG00000241015	TPM3P9	tropomyosin 3 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:44142]	transcribed processed pseudogene	-2.12	-0.23	1.90	-/NS	
ENSG00000242071	RPL7AP6	ribosomal protein L7a pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:19785]	processed pseudogene	-2.34	-0.47	1.87	-/NS	
ENSG00000204099	NEU4	neuraminidase 4 [Source:HGNC Symbol;Acc:HGNC:21328]	protein coding	-3.18	-1.34	1.84	-/NS	
ENSG00000152056	AP1S3	adaptor related protein complex 1 subunit sigma 3 [Source:HGNC Symbol;Acc:HGNC:18971]	protein coding	-2.62	-0.78	1.84	-/NS	
ENSG00000280789	PAGR1	PAXIP1 associated glutamate rich protein 1 [Source:HGNC Symbol;Acc:HGNC:28707]	protein coding	-2.58	-0.75	1.83	-/NS	
ENSG00000116809	ZBTB17	zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:HGNC:12936]	protein coding	0.50	2.32	1.83	NS/+	
ENSG00000100034	PPM1F	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1F [Source:HGNC Symbol;Acc:HGNC:19388]	protein coding	-2.01	-0.19	1.82	-/NS	
ENSG00000109089	CDR2L	cerebellar degeneration related protein 2 like [Source:HGNC Symbol;Acc:HGNC:29999]	protein coding	0.29	2.09	1.80	NS/+	
ENSG00000120693	SMAD9	SMAD family member 9 [Source:HGNC Symbol;Acc:HGNC:6774]	protein coding	-2.32	-0.53	1.78	-/NS	
ENSG00000252481	SCARNA13	small Cajal body-specific RNA 13 [Source:HGNC Symbol;Acc:HGNC:32570]	scaRNA	1.73	3.51	1.78	NS/+	
ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	protein coding	4.91	6.68	1.77	NS/+	
ENSG00000186193	SAPCD2	suppressor APC domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28055]	protein coding	-2.73	-1.01	1.73	-/NS	
ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	protein coding	1.05	2.76	1.71	NS/+	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	3.09	4.79	1.70	+/+	
ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]	protein coding	1.45	3.10	1.65	NS/+	
ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	protein coding	2.63	4.26	1.63	+/+	
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	protein coding	4.89	6.44	1.55	+/+	
ENSG00000142686	C1orf216	chromosome 1 open reading frame 216 [Source:HGNC Symbol;Acc:HGNC:26800]	protein coding	-2.17	-0.63	1.54	-/NS	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	protein coding	1.46	2.98	1.53	NS/+	
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	protein coding	2.42	3.93	1.51	NS/+	
ENSG00000282100	HSP90AB4P	heat shock protein 90 alpha family class B member 4, pseudogene [Source:HGNC Symbol;Acc:HGNC:32538]	processed pseudogene	-2.60	-1.12	1.48	-/NS	

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ENSG00000144354	CDCA7	cell division cycle associated 7 [Source:HGNC Symbol;Acc:HGNC:14628]	protein coding	-2.40	-0.92	1.48	-/NS	
ENSG00000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]	protein coding	1.86	3.33	1.47	NS/+	
ENSG00000120686	UFM1	ubiquitin fold modifier 1 [Source:HGNC Symbol;Acc:HGNC:20597]	protein coding	0.82	2.29	1.47	NS/+	
ENSG00000111328	CDK2AP1	cyclin dependent kinase 2 associated protein 1 [Source:HGNC Symbol;Acc:HGNC:14002]	protein coding	-2.01	-0.55	1.47	-/NS	
ENSG00000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]	protein coding	1.75	3.20	1.45	NS/+	
ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]	protein coding	1.22	2.64	1.43	NS/+	
ENSG00000198771	RCSD1	RCSD domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28310]	protein coding	-4.98	-3.57	1.42	-/-	
ENSG00000121068	TBX2	T-box 2 [Source:HGNC Symbol;Acc:HGNC:11597]	protein coding	-2.13	-0.72	1.42	-/NS	
ENSG00000165556	CDX2	caudal type homeobox 2 [Source:HGNC Symbol;Acc:HGNC:1806]	protein coding	-3.00	-1.58	1.41	-/NS	
ENSG00000077713	SLC25A43	solute carrier family 25 member 43 [Source:HGNC Symbol;Acc:HGNC:30557]	protein coding	-2.15	-0.73	1.41	-/NS	
ENSG00000231416		ribosomal protein L34 (RPL34) pseudogene	processed pseudogene	-2.59	-1.18	1.41	-/NS	
ENSG00000119125	GDA	guanine deaminase [Source:HGNC Symbol;Acc:HGNC:4212]	protein coding	-2.86	-1.45	1.41	-/NS	
ENSG00000258645	HSPE1P2	heat shock protein family E (Hsp10) member 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:20052]	processed pseudogene	-3.13	-1.74	1.40	-/NS	
ENSG00000146858	ZC3HAV1L	zinc finger CCCH-type containing, antiviral 1 like [Source:HGNC Symbol;Acc:HGNC:22423]	protein coding	-2.08	-0.71	1.37	-/NS	
ENSG00000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	protein coding	-3.52	-2.15	1.36	-/NS	
ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	protein coding	1.89	3.23	1.34	NS/+	
ENSG00000088826	SMOX	spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]	protein coding	0.71	2.04	1.33	NS/+	
ENSG00000103168	TAF1C	TATA-box binding protein associated factor, RNA polymerase I subunit C [Source:HGNC Symbol;Acc:HGNC:11534]	protein coding	0.99	2.32	1.33	NS/+	
ENSG00000271303	SRXN1	sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]	protein coding	-2.35	-1.06	1.29	-/NS	
ENSG00000153885	KCTD15	potassium channel tetramerization domain containing 15 [Source:HGNC Symbol;Acc:HGNC:23297]	protein coding	-2.20	-0.91	1.29	-/NS	
ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]	protein coding	1.34	2.63	1.28	NS/+	
ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	protein coding	2.35	3.62	1.28	+/+	
ENSG00000283162		STRA6-like (Stra6l) pseudogene	transcribed unprocessed pseudogene	3.14	4.41	1.27	NS/+	

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ENSG00000180581	SRP9P1	signal recognition particle 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23402]	processed pseudogene	-2.18	-0.92	1.26	-/NS	
ENSG00000278099			snRNA	2.98	4.22	1.24	+/+	
ENSG00000265961			misc RNA	-2.74	-1.50	1.24	-/NS	
ENSG00000118507	AKAP7	A-kinase anchoring protein 7 [Source:HGNC Symbol;Acc:HGNC:377]	protein coding	-2.11	-0.87	1.24	-/NS	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	2.63	3.86	1.24	+/+	
ENSG00000259479	SORD2P	sorbitol dehydrogenase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:49919]	transcribed unprocessed pseudogene	-2.74	-1.51	1.23	-/NS	
ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	protein coding	1.41	2.63	1.22	NS/+	
ENSG00000073905	VDAC1P1	voltage dependent anion channel 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:12671]	processed pseudogene	-2.21	-1.00	1.21	-/NS	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	4.56	5.77	1.21	+/+	
ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	protein coding	1.80	2.99	1.19	NS/+	
ENSG00000245848	CEBPA	CCAAT enhancer binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1833]	protein coding	-2.03	-0.84	1.18	-/NS	
ENSG00000131669	NINJ1	ninjurin 1 [Source:HGNC Symbol;Acc:HGNC:7824]	protein coding	1.18	2.35	1.18	NS/+	
ENSG00000137364	TPMT	thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:HGNC:12014]	protein coding	-2.32	-1.14	1.18	-/NS	
ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	protein coding	2.58	3.75	1.17	+/+	
ENSG00000263528	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon [Source:HGNC Symbol;Acc:HGNC:14552]	protein coding	1.52	2.68	1.16	NS/+	
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	protein coding	3.43	4.59	1.15	+/+	
ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	protein coding	2.98	4.12	1.13	+/+	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	3.14	4.27	1.13	+/+	
ENSG00000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	protein coding	1.76	2.88	1.12	NS/+	
ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	protein coding	1.79	2.90	1.11	NS/+	
ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	protein coding	1.47	2.59	1.11	NS/+	
ENSG00000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	transcribed unprocessed pseudogene	2.27	3.38	1.11	+/+	
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	2.03	3.14	1.11	+/+	

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ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	protein coding	1.84	2.95	1.11	NS/+	
ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	protein coding	4.42	5.52	1.11	+/-	
ENSG00000103707	MTFMT	mitochondrial methionyl-tRNA formyltransferase [Source:HGNC Symbol;Acc:HGNC:29666]	protein coding	-2.16	-1.06	1.10	-/NS	
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	protein coding	3.78	4.86	1.08	+/-	
ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]	protein coding	1.86	2.94	1.08	NS/+	
ENSG00000207349	RNUV1-17	RNA, variant U1 small nuclear 17 [Source:HGNC Symbol;Acc:HGNC:48322]	snRNA	2.17	3.24	1.07	+/-	
ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	protein coding	3.91	4.98	1.07	+/-	
ENSG00000253616		novel transcript	antisense	2.77	3.83	1.06	+/-	
ENSG00000100226	GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4669]	protein coding	1.66	2.72	1.05	NS/+	
ENSG00000090020	SLC9A1	solute carrier family 9 member A1 [Source:HGNC Symbol;Acc:HGNC:11071]	protein coding	2.14	3.19	1.05	+/NS	
ENSG00000166173	LARP6	La ribonucleoprotein domain family member 6 [Source:HGNC Symbol;Acc:HGNC:24012]	protein coding	1.77	2.81	1.05	NS/+	
ENSG00000156510	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23302]	protein coding	1.89	2.92	1.03	NS/+	
ENSG0000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]	protein coding	-2.30	-1.27	1.03	-/NS	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	4.66	5.68	1.03	+/-	
ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	protein coding	2.39	3.40	1.01	+/-	
ENSG00000182378	PLCXD1	phosphatidylinositol specific phospholipase C X domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23148]	protein coding	-2.40	-1.39	1.00	-/NS	
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	protein coding	3.16	4.16	1.00	+/-	
ENSG00000160298	C21orf58	chromosome 21 open reading frame 58 [Source:HGNC Symbol;Acc:HGNC:1300]	protein coding	-3.13	-2.14	1.00	-/NS	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	6.93	7.91	0.98	+/-	
ENSG00000259020		prothymosin, alpha (PTMA) pseudogene	processed pseudogene	-2.74	-1.76	0.98	-/NS	
ENSG00000137497	NUMA1	nuclear mitotic apparatus protein 1 [Source:HGNC Symbol;Acc:HGNC:8059]	protein coding	-2.27	-1.30	0.97	-/NS	
ENSG00000107957	SH3PXD2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:HGNC:23664]	protein coding	-2.16	-1.19	0.97	-/NS	
ENSG00000131153	GINS2	GINS complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:24575]	protein coding	-2.36	-1.39	0.96	-/NS	

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ENSG00000187288	CIDEC	cell death inducing DFFA like effector c [Source:HGNC Symbol;Acc:HGNC:24229]	protein coding	-2.37	-1.42	0.95	-/NS	
ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]	protein coding	1.71	2.66	0.95	NS/+	
ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	protein coding	4.32	5.27	0.95	+/+	
ENSG00000092853	CLSPN	claspin [Source:HGNC Symbol;Acc:HGNC:19715]	protein coding	-2.14	-1.20	0.94	-/NS	
ENSG00000238554	RNU1-88P	RNA, U1 small nuclear 88, pseudogene [Source:HGNC Symbol;Acc:HGNC:48430]	snRNA	2.13	3.07	0.94	+/NS	
ENSG00000242060	RPS3AP49	ribosomal protein S3a pseudogene 49 [Source:HGNC Symbol;Acc:HGNC:36810]	processed pseudogene	-2.04	-1.12	0.93	-/NS	
ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	protein coding	2.57	3.50	0.92	+/+	
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	4.14	5.06	0.92	+/+	
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	protein coding	2.73	3.65	0.92	+/+	
ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	protein coding	3.84	4.76	0.91	+/+	
ENSG00000200296	RNU1-83P	RNA, U1 small nuclear 83, pseudogene [Source:HGNC Symbol;Acc:HGNC:48425]	snRNA	2.37	3.28	0.91	+/+	
ENSG00000207322	RNU1-89P	RNA, U1 small nuclear 89, pseudogene [Source:HGNC Symbol;Acc:HGNC:48431]	snRNA	2.10	3.01	0.91	+/+	
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	protein coding	1.98	2.89	0.91	NS/+	
ENSG00000279738		novel transcript, sense overlapping to EIF3L	sense overlapping	-2.74	-1.83	0.91	-/NS	
ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	protein coding	2.34	3.23	0.90	+/+	
ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	antisense	3.63	4.52	0.89	+/+	
ENSG00000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like [Source:HGNC Symbol;Acc:HGNC:15797]	protein coding	2.24	3.11	0.87	+/+	
ENSG00000124508	BTN2A2	butyrophilin subfamily 2 member A2 [Source:HGNC Symbol;Acc:HGNC:1137]	protein coding	2.11	2.98	0.86	+/NS	
ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	protein coding	-5.66	-4.81	0.85	-/-	
ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	protein coding	1.89	2.74	0.85	NS/+	
ENSG00000101255	TRIB3	tribbles pseudo-kinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	3.36	4.20	0.84	+/+	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	3.85	4.69	0.84	+/+	
ENSG00000167291	TBC1D16	TBC1 domain family member 16 [Source:HGNC Symbol;Acc:HGNC:28356]	protein coding	-2.21	-1.39	0.82	-/NS	

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ENSG00000196588	MRTFA	myocardin related transcription factor A [Source:HGNC Symbol;Acc:HGNC:14334]	protein coding	1.93	2.74	0.81	NS/+	
ENSG00000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	protein coding	1.60	2.40	0.80	NS/+	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	4.67	5.48	0.80	+/+	
ENSG00000111275	ALDH2	aldehyde dehydrogenase 2 family member [Source:HGNC Symbol;Acc:HGNC:404]	protein coding	-2.15	-1.35	0.80	-/NS	
ENSG00000133106	EPSTI1	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]	protein coding	2.53	3.31	0.78	+/NS	
ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]	protein coding	1.34	2.12	0.77	NS/+	
ENSG00000214121	PRDX1P1	peroxiredoxin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:11711]	processed pseudogene	-2.27	-1.50	0.77	-/NS	
ENSG00000106785	TRIM14	tripartite motif containing 14 [Source:HGNC Symbol;Acc:HGNC:16283]	protein coding	-2.14	-1.36	0.77	-/NS	
ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]	protein coding	2.74	3.52	0.77	+/+	
ENSG00000117450	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:9352]	protein coding	-2.15	-1.38	0.77	-/NS	
ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	protein coding	3.00	3.74	0.75	+/+	
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	protein coding	2.35	3.10	0.74	+/+	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	4.23	4.97	0.74	+/+	
ENSG00000008323	PLEKHG6	pleckstrin homology and RhoGEF domain containing G6 [Source:HGNC Symbol;Acc:HGNC:25562]	protein coding	-2.12	-1.39	0.73	-/NS	
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	protein coding	2.34	3.07	0.73	+/+	
ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]	protein coding	-2.65	-1.92	0.73	-/NS	
ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	protein coding	2.85	3.57	0.72	+/+	
ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	protein coding	2.10	2.82	0.71	+/+	
ENSG00000149925	ALDOA	aldolase, fructose-bisphosphate A [Source:HGNC Symbol;Acc:HGNC:414]	protein coding	-2.59	-1.90	0.70	-/NS	
ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	protein coding	2.19	2.89	0.70	+/+	
ENSG00000107521	HPS1	HPS1, biogenesis of lysosomal organelles complex 3 subunit 1 [Source:HGNC Symbol;Acc:HGNC:5163]	protein coding	1.52	2.21	0.69	NS/+	
ENSG00000083123	BCKDHB	branched chain keto acid dehydrogenase E1 subunit beta [Source:HGNC Symbol;Acc:HGNC:987]	protein coding	-2.13	-1.44	0.69	-/NS	
ENSG00000137834	SMAD6	SMAD family member 6 [Source:HGNC Symbol;Acc:HGNC:6772]	protein coding	-2.08	-1.40	0.68	-/NS	

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ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	protein coding	5.54	6.22	0.68	+/-	
ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	protein coding	2.09	2.77	0.68	+/-	
ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	protein coding	1.73	2.39	0.66	NS/+	
ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]	protein coding	-2.49	-1.83	0.66	-/NS	
ENSG00000256937	KRT17P8	keratin 17 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:50726]	processed pseudogene	-2.34	-1.68	0.65	-/NS	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	2.25	2.89	0.64	+/-	
ENSG00000168078	PBK	PDZ binding kinase [Source:HGNC Symbol;Acc:HGNC:18282]	protein coding	-2.19	-1.55	0.64	-/NS	
ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]	protein coding	2.97	3.59	0.63	+/-	
ENSG00000187134	AKR1C1	aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384]	protein coding	-2.11	-1.48	0.62	-/NS	
ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	protein coding	2.11	2.72	0.62	NS/+	
ENSG00000221869	CEBDP	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	2.11	2.72	0.61	+/-	
ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	protein coding	-2.85	-2.24	0.60	-/-	
ENSG00000144792	ZNF660	zinc finger protein 660 [Source:HGNC Symbol;Acc:HGNC:26720]	protein coding	-2.08	-1.48	0.60	-/NS	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	3.61	4.21	0.59	+/-	
ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	protein coding	1.66	2.24	0.58	NS/+	
ENSG00000204616	TRIM31	tripartite motif containing 31 [Source:HGNC Symbol;Acc:HGNC:16289]	protein coding	1.89	2.44	0.55	NS/+	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	4.27	4.82	0.55	+/-	
ENSG00000175115	PACS1	phosphofuran acidic cluster sorting protein 1 [Source:HGNC Symbol;Acc:HGNC:30032]	protein coding	1.79	2.33	0.54	NS/+	
ENSG00000163032	VSNL1	visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]	protein coding	-2.53	-2.00	0.53	-/NS	
ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]	protein coding	-2.17	-1.65	0.52	-/NS	
ENSG00000206702	RNU1-11P	RNA, U1 small nuclear 11, pseudogene [Source:HGNC Symbol;Acc:HGNC:10137]	snRNA	2.06	2.57	0.51	+/NS	
ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	transcribed unprocessed pseudogene	3.57	4.08	0.51	+/-	
ENSG00000207175	RNU1-67P	RNA, U1 small nuclear 67, pseudogene [Source:HGNC Symbol;Acc:HGNC:48409]	snRNA	2.03	2.53	0.49	+/-	

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ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]	protein coding	2.96	3.44	0.48	+/+	
ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	protein coding	3.95	4.42	0.47	+/+	
ENSG0000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]	protein coding	2.32	2.78	0.47	+/+	
ENSG00000080031	PTPRH	protein tyrosine phosphatase, receptor type H [Source:HGNC Symbol;Acc:HGNC:9672]	protein coding	2.05	2.52	0.47	+/NS	
ENSG00000128228	SDF2L1	stromal cell derived factor 2 like 1 [Source:HGNC Symbol;Acc:HGNC:10676]	protein coding	1.83	2.30	0.47	NS/+	
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	2.55	3.01	0.46	+/+	
ENSG00000114019	AMOTL2	angiotonin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	protein coding	2.31	2.75	0.44	+/+	
ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	protein coding	2.47	2.90	0.43	+/+	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	4.25	4.65	0.40	+/+	
ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	protein coding	1.97	2.37	0.40	NS/+	
ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	protein coding	-3.09	-2.69	0.40	-/-	
ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	protein coding	2.52	2.91	0.39	+/+	
ENSG00000070404	FSTL3	follistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	protein coding	2.44	2.83	0.39	+/NS	
ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	protein coding	1.70	2.09	0.39	NS/+	
ENSG00000255468			antisense	-2.07	-1.68	0.39	-/NS	
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	protein coding	10.08	10.44	0.36	+/+	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	3.21	3.57	0.35	+/+	
ENSG00000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	protein coding	2.18	2.53	0.35	+/+	
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	protein coding	3.57	3.91	0.34	+/+	
ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	protein coding	2.59	2.93	0.34	+/+	
ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	protein coding	2.89	3.23	0.33	+/+	
ENSG00000267519		novel transcript	antisense	2.39	2.71	0.32	+/NS	
ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]	protein coding	2.03	2.35	0.32	+/+	

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ENSG00000128965	CHAC1	Chac glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]			protein coding	4.80	5.12	0.32	+/-	
ENSG00000223668	EEF1A1P24	eukaryotic translation elongation factor 1 alpha 1 pseudogene 24 [Source:HGNC Symbol;Acc:HGNC:37897]			processed pseudogene	-2.27	-1.96	0.30	-/NS	
ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]			protein coding	2.05	2.34	0.29	+/NS	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]			protein coding	3.27	3.56	0.29	+/-	
ENSG00000161091	MFSD12	major facilitator superfamily domain containing 12 [Source:HGNC Symbol;Acc:HGNC:28299]			protein coding	2.32	2.60	0.28	+/NS	
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]			protein coding	2.89	3.17	0.28	+/-	
ENSG00000140105	WARS	tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:12729]			protein coding	1.99	2.27	0.28	NS/+	
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]			protein coding	3.61	3.87	0.26	+/-	
ENSG00000178607	ERN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:HGNC:3449]			protein coding	2.34	2.58	0.24	+/NS	
ENSG00000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]			protein coding	6.44	6.68	0.24	+/-	
ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]			protein coding	3.80	4.02	0.22	+/-	
ENSG00000161888	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]			protein coding	-2.06	-1.84	0.22	-/NS	
ENSG00000200197	RNU1-21P	RNA, U1 small nuclear 21, pseudogene [Source:HGNC Symbol;Acc:HGNC:41947]			snRNA	3.77	3.97	0.20	NS/+	
ENSG00000200795	RNU4-1	RNA, U4 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10192]			snRNA	2.30	2.49	0.19	+/NS	
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]			protein coding	2.57	2.75	0.18	+/NS	
ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]			protein coding	2.14	2.31	0.17	+/-	
ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]			protein coding	2.60	2.76	0.16	+/-	
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]			protein coding	2.96	3.10	0.14	NS/+	
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]			protein coding	3.46	3.59	0.13	+/-	
ENSG00000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]			protein coding	3.58	3.71	0.13	+/-	
ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]			processed transcript	2.76	2.88	0.12	+/-	

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ENSG00000162687	KCNT2	potassium sodium-activated channel subfamily T member 2 [Source:HGNC Symbol;Acc:HGNC:18866]	protein coding	2.48	2.60	0.12	+/NS	
ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]	lincRNA	2.34	2.45	0.11	+/NS	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	4.46	4.57	0.10	+/+	
ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	lincRNA	-2.77	-2.67	0.10	-/NS	
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	protein coding	3.47	3.53	0.05	+/+	
ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	protein coding	2.56	2.61	0.05	+/NS	
ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]	protein coding	2.85	2.89	0.04	+/+	
ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	transcribed unprocessed pseudogene	3.10	3.13	0.03	+/NS	
ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6206]	protein coding	2.46	2.49	0.03	+/+	
ENSG00000237187	NR2F1-AS1	NR2F1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48622]	antisense	2.32	2.32	-0.00	+/NS	
ENSG00000216775			transcribed unprocessed pseudogene	-2.02	-2.03	-0.01	-/NS	
ENSG00000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]	protein coding	3.44	3.42	-0.01	+/+	
ENSG00000142065	ZFP14	ZFP14 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:29312]	protein coding	-2.38	-2.39	-0.02	-/NS	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	2.73	2.70	-0.02	+/+	
ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]	protein coding	2.04	2.01	-0.02	+/NS	
ENSG00000005187	ACSM3	acyl-CoA synthetase medium chain family member 3 [Source:HGNC Symbol;Acc:HGNC:10522]	protein coding	-2.05	-2.08	-0.03	-/NS	
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	protein coding	2.93	2.89	-0.04	+/+	
ENSG00000198832	SELENOM	seleoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]	protein coding	2.43	2.36	-0.07	+/+	
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	protein coding	3.84	3.76	-0.07	+/NS	
ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	protein coding	2.68	2.60	-0.08	+/+	
ENSG00000206908	RNU1-136P	RNA, U1 small nuclear 136, pseudogene [Source:HGNC Symbol;Acc:HGNC:48478]	snRNA	2.93	2.84	-0.09	+/NS	
ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	4.14	4.05	-0.09	+/+	

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ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.34	2.24	-0.11	+/+	
ENSG0000040487	PQLC2	PQ loop repeat containing 2 [Source:HGNC Symbol;Acc:HGNC:26001]	protein coding	2.31	2.20	-0.11	+/NS	
ENSG0000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]	protein coding	-2.45	-2.56	-0.12	-/NS	
ENSG0000065911	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydro-lase [Source:HGNC Symbol;Acc:HGNC:7434]	protein coding	2.01	1.89	-0.12	+/NS	
ENSG0000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	protein coding	2.14	2.02	-0.12	+/+	
ENSG0000237988	OR2I1P	olfactory receptor family 2 subfamily 1 member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	protein coding	2.56	2.43	-0.13	+/NS	
ENSG0000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]	protein coding	2.82	2.68	-0.14	+/NS	
ENSG0000143303	RRNAD1	ribosomal RNA adenine dimethylase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:24273]	protein coding	2.57	2.39	-0.17	+/NS	
ENSG0000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	protein coding	2.74	2.56	-0.18	+/+	
ENSG0000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	protein coding	2.26	2.07	-0.19	+/NS	
ENSG0000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	3.80	3.60	-0.19	+/+	
ENSG0000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	protein coding	3.39	3.18	-0.21	+/+	
ENSG0000125319	C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:HGNC:28460]	protein coding	2.07	1.85	-0.22	+/NS	
ENSG0000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	4.17	3.95	-0.22	+/+	
ENSG0000138119	MYOF	myoferlin [Source:HGNC Symbol;Acc:HGNC:3656]	protein coding	2.09	1.86	-0.23	+/NS	
ENSG0000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	protein coding	3.37	3.14	-0.23	+/+	
ENSG0000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	protein coding	4.37	4.12	-0.24	+/+	
ENSG0000238825	RNU1-13P	RNA, U1 small nuclear 13, pseudogene [Source:HGNC Symbol;Acc:HGNC:10138]	snRNA	2.73	2.49	-0.25	+/NS	
ENSG0000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	protein coding	2.48	2.23	-0.26	+/NS	
ENSG0000134548	SPX	spexin hormone [Source:HGNC Symbol;Acc:HGNC:28139]	protein coding	2.08	1.80	-0.28	+/NS	
ENSG0000170537	TMC7	transmembrane channel like 7 [Source:HGNC Symbol;Acc:HGNC:23000]	protein coding	2.28	1.99	-0.29	+/NS	
ENSG0000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]	protein coding	2.13	1.84	-0.29	+/NS	

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ENSG00000103257	SLC7A5	solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063]	protein coding	2.30	2.00	-0.30	+/NS	
ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	protein coding	4.20	3.90	-0.30	+/+	
ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]	protein coding	2.73	2.43	-0.30	+/NS	
ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	protein coding	-2.02	-2.32	-0.31	-/NS	
ENSG00000101194	SLC17A9	solute carrier family 17 member 9 [Source:HGNC Symbol;Acc:HGNC:16192]	protein coding	2.02	1.71	-0.31	+/NS	
ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]	protein coding	3.04	2.74	-0.31	+/NS	
ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	protein coding	2.37	2.06	-0.31	+/NS	
ENSG00000154822	PLCL2	phospholipase C like 2 [Source:HGNC Symbol;Acc:HGNC:9064]	protein coding	-2.25	-2.57	-0.32	-/NS	
ENSG00000113811	SELENOK	seleno protein K [Source:HGNC Symbol;Acc:HGNC:30394]	protein coding	2.87	2.55	-0.33	+/+	
ENSG00000229656	ITGB1-DT	ITGB1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:53718]	lincRNA	3.36	3.03	-0.33	+/NS	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.96	2.63	-0.33	+/+	
ENSG00000100592	DAAM1	dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:HGNC:18142]	protein coding	2.01	1.67	-0.34	+/NS	
ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	protein coding	2.96	2.62	-0.35	+/+	
ENSG00000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:4525]	protein coding	3.01	2.66	-0.35	+/NS	
ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	protein coding	3.84	3.49	-0.35	+/+	
ENSG00000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	protein coding	2.57	2.22	-0.36	+/+	
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	3.38	3.01	-0.37	+/+	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudogene	5.03	4.64	-0.39	+/+	
ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	protein coding	2.55	2.16	-0.39	+/NS	
ENSG00000130733	YIPF2	Yip1 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:28476]	protein coding	2.17	1.77	-0.39	+/NS	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	4.11	3.72	-0.39	+/+	
ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]	protein coding	2.63	2.23	-0.40	+/NS	

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ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	protein coding	2.75	2.35	-0.40	+/+	
ENSG00000166145	SPINT1	serine peptidase inhibitor, Kunitz type 1 [Source:HGNC Symbol;Acc:HGNC:11246]	protein coding	2.13	1.72	-0.41	+/NS	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	3.90	3.48	-0.41	+/+	
ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]	protein coding	2.66	2.23	-0.43	+/+	
ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	protein coding	5.11	4.68	-0.43	+/+	
ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	protein coding	3.02	2.58	-0.44	+/+	
ENSG00000164535	DAGLB	diacylglycerol lipase beta [Source:HGNC Symbol;Acc:HGNC:28923]	protein coding	2.24	1.80	-0.44	+/NS	
ENSG00000140471	LINS1	lines homolog 1 [Source:HGNC Symbol;Acc:HGNC:30922]	protein coding	2.29	1.84	-0.45	+/NS	
ENSG0000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]	protein coding	3.14	2.68	-0.46	+/NS	
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3796]	protein coding	4.59	4.12	-0.47	+/+	
ENSG00000150782	IL18	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	protein coding	2.21	1.74	-0.47	+/NS	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	3.29	2.82	-0.47	+/+	
ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	protein coding	2.36	1.88	-0.48	+/NS	
ENSG00000202538	RNU4-2	RNA, U4 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10193]	snRNA	2.04	1.55	-0.49	+/NS	
ENSG0000065060	UHRF1BP1	UHRF1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21216]	protein coding	2.27	1.78	-0.49	+/NS	
ENSG0000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]	protein coding	2.28	1.79	-0.49	+/NS	
ENSG0000078804	TP53INP2	tumor protein p53 inducible nuclear protein 2 [Source:HGNC Symbol;Acc:HGNC:16104]	protein coding	2.20	1.69	-0.51	+/NS	
ENSG00000148719	DNAJB12	DnaJ heat shock protein family (Hsp40) member B12 [Source:HGNC Symbol;Acc:HGNC:14891]	protein coding	2.17	1.66	-0.51	+/NS	
ENSG00000138639	ARHGAP24	Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:HGNC:25361]	protein coding	2.68	2.17	-0.51	+/NS	
ENSG0000090581	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:HGNC Symbol;Acc:HGNC:23026]	protein coding	2.39	1.87	-0.52	+/NS	
ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	protein coding	2.88	2.37	-0.52	+/+	
ENSG00000184164	CRELD2	cysteine rich with EGF like domains 2 [Source:HGNC Symbol;Acc:HGNC:28150]	protein coding	2.59	2.07	-0.52	+/NS	
ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	protein coding	2.69	2.16	-0.53	+/NS	

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ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	4.08	3.55	-0.53	+/+	
ENSG00000124067	SLC12A4	solute carrier family 12 member 4 [Source:HGNC Symbol;Acc:HGNC:10913]	protein coding	2.73	2.20	-0.54	+/NS	
ENSG00000136997	MYC	MYC proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7553]	protein coding	2.33	1.80	-0.54	+/NS	
ENSG00000163251	FZD5	frizzled class receptor 5 [Source:HGNC Symbol;Acc:HGNC:4043]	protein coding	2.27	1.72	-0.54	+/NS	
ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	protein coding	2.33	1.79	-0.54	+/NS	
ENSG00000164308	ERAP2	endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]	protein coding	3.20	2.66	-0.54	+/NS	
ENSG00000103042	SLC38A7	solute carrier family 38 member 7 [Source:HGNC Symbol;Acc:HGNC:25582]	protein coding	2.96	2.41	-0.54	+/NS	
ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	protein coding	2.46	1.92	-0.54	+/NS	
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	3.81	3.26	-0.55	+/+	
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	protein coding	3.64	3.08	-0.56	+/+	
ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	protein coding	3.85	3.29	-0.56	+/+	
ENSG00000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]	protein coding	2.07	1.51	-0.56	+/NS	
ENSG00000180035	ZNF48	zinc finger protein 48 [Source:HGNC Symbol;Acc:HGNC:13114]	protein coding	2.26	1.69	-0.57	+/NS	
ENSG00000221968	FADS3	fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:3576]	protein coding	3.04	2.46	-0.58	+/NS	
ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	protein coding	-2.06	-2.64	-0.58	-/-	
ENSG00000148926	ADM	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]	protein coding	2.07	1.49	-0.59	+/NS	
ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	protein coding	5.40	4.80	-0.60	+/+	
ENSG00000108622	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:5345]	protein coding	3.57	2.97	-0.60	+/NS	
ENSG00000169155	ZBTB43	zinc finger and BTB domain containing 43 [Source:HGNC Symbol;Acc:HGNC:17908]	protein coding	2.10	1.50	-0.60	+/NS	
ENSG00000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]	protein coding	2.13	1.52	-0.61	+/NS	
ENSG00000173276	ZBTB21	zinc finger and BTB domain containing 21 [Source:HGNC Symbol;Acc:HGNC:13083]	protein coding	2.31	1.69	-0.61	+/NS	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	3.88	3.25	-0.63	+/+	
ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]	protein coding	-2.12	-2.75	-0.63	-/-	

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ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	protein coding	2.40	1.77	-0.64	+/NS	
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	protein coding	4.17	3.53	-0.64	+/+	
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	protein coding	3.70	3.05	-0.65	+/+	
ENSG00000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]	protein coding	2.13	1.45	-0.68	+/NS	
ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]	protein coding	-2.19	-2.87	-0.68	-/-	
ENSG00000165782	PIP4P1	phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:19299]	protein coding	2.22	1.53	-0.69	+/NS	
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	protein coding	4.28	3.59	-0.69	+/+	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	3.25	2.57	-0.69	+/+	
ENSG00000103335	PIEZO1	piezo type mechanosensitive ion channel component 1 [Source:HGNC Symbol;Acc:HGNC:28993]	protein coding	2.23	1.54	-0.69	+/NS	
ENSG00000163482	STK36	serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC:17209]	protein coding	2.47	1.77	-0.70	+/NS	
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	protein coding	6.91	6.21	-0.71	+/+	
ENSG00000107864	CPEB3	cytoplasmic polyadenylation element binding protein 3 [Source:HGNC Symbol;Acc:HGNC:21746]	protein coding	3.09	2.38	-0.71	+/NS	
ENSG00000119777	TMEM214	transmembrane protein 214 [Source:HGNC Symbol;Acc:HGNC:25983]	protein coding	2.45	1.74	-0.71	+/NS	
ENSG00000258890	CEP95	centrosomal protein 95 [Source:HGNC Symbol;Acc:HGNC:25141]	protein coding	2.13	1.40	-0.72	+/NS	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	8.56	7.82	-0.74	+/+	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	3.57	2.83	-0.74	+/+	
ENSG00000126561	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:HGNC:11366]	protein coding	2.37	1.63	-0.74	+/NS	
ENSG00000168610	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]	protein coding	2.04	1.28	-0.77	+/NS	
ENSG00000121073	SLC35B1	solute carrier family 35 member B1 [Source:HGNC Symbol;Acc:HGNC:20798]	protein coding	2.19	1.42	-0.77	+/NS	
ENSG00000168016	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:29011]	protein coding	2.52	1.75	-0.77	+/NS	
ENSG00000125734	GPR108	G protein-coupled receptor 108 [Source:HGNC Symbol;Acc:HGNC:17829]	protein coding	2.24	1.45	-0.79	+/NS	
ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]	protein coding	2.12	1.32	-0.80	+/NS	
ENSG00000168488	ATXN2L	ataxin 2 like [Source:HGNC Symbol;Acc:HGNC:31326]	protein coding	2.36	1.56	-0.80	+/NS	

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ENSG00000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]	protein coding	4.27	3.46	-0.80	+/NS	
ENSG0000070759	TESK2	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]	protein coding	2.37	1.57	-0.81	+/NS	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	4.52	3.71	-0.81	+/+	
ENSG0000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]	protein coding	3.35	2.54	-0.81	+/NS	
ENSG00000152439	ZNF773	zinc finger protein 773 [Source:HGNC Symbol;Acc:HGNC:30487]	protein coding	2.30	1.49	-0.81	+/NS	
ENSG00000203812	HIST2H2AA3	histone cluster 2 H2A family member a3 [Source:HGNC Symbol;Acc:HGNC:4736]	protein coding	2.25	1.44	-0.81	+/NS	
ENSG00000158615	PPP1R15B	protein phosphatase 1 regulatory subunit 15B [Source:HGNC Symbol;Acc:HGNC:14951]	protein coding	2.11	1.30	-0.81	+/NS	
ENSG00000168826	ZBTB49	zinc finger and BTB domain containing 49 [Source:HGNC Symbol;Acc:HGNC:19883]	protein coding	2.82	2.01	-0.82	+/NS	
ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]	protein coding	2.59	1.77	-0.82	+/NS	
ENSG00000102003	SYP	synaptophysin [Source:HGNC Symbol;Acc:HGNC:11506]	protein coding	4.13	3.31	-0.83	NS/+	
ENSG00000105726	ATP13A1	ATPase 13A1 [Source:HGNC Symbol;Acc:HGNC:24215]	protein coding	2.17	1.34	-0.83	+/NS	
ENSG00000197818	SLC9A8	solute carrier family 9 member A8 [Source:HGNC Symbol;Acc:HGNC:20728]	protein coding	3.26	2.41	-0.85	+/NS	
ENSG00000251136			lincRNA	2.61	1.76	-0.85	+/NS	
ENSG00000162298	SYVN1	synoviolin 1 [Source:HGNC Symbol;Acc:HGNC:20738]	protein coding	2.11	1.25	-0.87	+/NS	
ENSG00000164142	FAM160A1	family with sequence similarity 160 member A1 [Source:HGNC Symbol;Acc:HGNC:34237]	protein coding	2.45	1.57	-0.88	+/NS	
ENSG0000005486	RHBDD2	rhomboid domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23082]	protein coding	2.23	1.35	-0.88	+/NS	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	5.34	4.45	-0.88	+/+	
ENSG00000137185	ZSCAN9	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]	protein coding	2.64	1.75	-0.89	+/NS	
ENSG00000145390	USP53	ubiquitin specific peptidase 53 [Source:HGNC Symbol;Acc:HGNC:29255]	protein coding	2.12	1.22	-0.89	+/NS	
ENSG00000212443	SNORA53	small nucleolar RNA, H/ACA box 53 [Source:HGNC Symbol;Acc:HGNC:32646]	snoRNA	2.64	1.73	-0.90	+/NS	
ENSG00000182199	SHMT2	serine hydroxymethyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10852]	protein coding	2.12	1.22	-0.90	+/NS	
ENSG00000201910	RNU1-140P	RNA, U1 small nuclear 140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48482]	snRNA	5.08	4.16	-0.92	+/+	
ENSG00000171988	JMJD1C	jumonji domain containing 1C [Source:HGNC Symbol;Acc:HGNC:12313]	protein coding	2.31	1.37	-0.93	+/NS	

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ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	protein coding	2.12	1.17	-0.95	+/NS	
ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]	protein coding	3.22	2.26	-0.96	+/NS	
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	protein coding	3.95	2.99	-0.96	+/+	
ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]	protein coding	3.18	2.21	-0.96	+/NS	
ENSG00000137522	RNF121	ring finger protein 121 [Source:HGNC Symbol;Acc:HGNC:21070]	protein coding	2.46	1.50	-0.96	+/NS	
ENSG00000251258	RFPL4B	ret finger protein like 4B [Source:HGNC Symbol;Acc:HGNC:33264]	protein coding	2.35	1.38	-0.97	+/NS	
ENSG00000202395	RN7SKP1	RNA, 7SK small nuclear pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42619]	misc RNA	2.67	1.69	-0.99	+/NS	
ENSG00000141384	TAF4B	TATA-box binding protein associated factor 4b [Source:HGNC Symbol;Acc:HGNC:11538]	protein coding	3.25	2.26	-0.99	+/NS	
ENSG00000106105	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:4162]	protein coding	2.36	1.37	-0.99	+/NS	
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	protein coding	3.68	2.68	-1.00	+/+	
ENSG00000074842	MYDGF	myeloid derived growth factor [Source:HGNC Symbol;Acc:HGNC:16948]	protein coding	2.03	1.03	-1.01	+/NS	
ENSG00000073464	CLCN4	chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc:HGNC:2022]	protein coding	2.78	1.77	-1.01	+/NS	
ENSG00000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]	protein coding	3.09	2.08	-1.01	+/NS	
ENSG00000115306	SPTBN1	spectrin beta, non-erythrocytic 1 [Source:HGNC Symbol;Acc:HGNC:11275]	protein coding	2.17	1.13	-1.04	+/NS	
ENSG00000092969	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]	protein coding	2.88	1.84	-1.04	+/NS	
ENSG00000169432	SCN9A	sodium voltage-gated channel alpha subunit 9 [Source:HGNC Symbol;Acc:HGNC:10597]	protein coding	2.16	1.12	-1.04	+/NS	
ENSG00000040531	CTNS	cystinosin, lysosomal cystine transporter [Source:HGNC Symbol;Acc:HGNC:2518]	protein coding	2.35	1.29	-1.07	+/NS	
ENSG00000152409	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:HGNC:28916]	protein coding	2.90	1.83	-1.07	+/NS	
ENSG00000199568	RNU5A-1	RNA, U5A small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10211]	snRNA	2.11	1.04	-1.07	+/NS	
ENSG00000110218	PANX1	pannexin 1 [Source:HGNC Symbol;Acc:HGNC:8599]	protein coding	2.61	1.53	-1.08	+/NS	
ENSG00000148143	ZNF462	zinc finger protein 462 [Source:HGNC Symbol;Acc:HGNC:21684]	protein coding	2.76	1.67	-1.09	+/NS	
ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudo-gene) [Source:HGNC Symbol;Acc:HGNC:4969]	unprocessed pseudogene	5.35	4.26	-1.09	+/+	
ENSG00000234678	ELF3-AS1	ELF3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40211]	antisense	2.14	1.05	-1.09	+/NS	

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ENSG00000081087	OSTM1	osteoclastogenesis associated transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:21652]	protein coding	2.17	1.07	-1.10	+/NS	
ENSG00000117410	ATP6V0B	ATPase H+ transporting V0 subunit b [Source:HGNC Symbol;Acc:HGNC:861]	protein coding	2.20	1.09	-1.11	+/NS	
ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]	protein coding	3.29	2.18	-1.11	+/NS	
ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	protein coding	6.14	5.01	-1.13	+/+	
ENSG00000277918			snRNA	2.45	1.31	-1.14	+/NS	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]	protein coding	3.44	2.29	-1.15	+/+	
ENSG00000004866	ST7	suppression of tumorigenicity 7 [Source:HGNC Symbol;Acc:HGNC:11351]	protein coding	2.02	0.87	-1.15	+/NS	
ENSG00000110048	OSBP	oxysterol binding protein [Source:HGNC Symbol;Acc:HGNC:8503]	protein coding	2.32	1.17	-1.15	+/NS	
ENSG00000105281	SLC1A5	solute carrier family 1 member 5 [Source:HGNC Symbol;Acc:HGNC:10943]	protein coding	2.56	1.40	-1.16	+/NS	
ENSG00000132801	ZSWIM3	zinc finger SWIM-type containing 3 [Source:HGNC Symbol;Acc:HGNC:16157]	protein coding	2.02	0.85	-1.17	+/NS	
ENSG00000251022	THAP9-AS1	THAP9 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44172]	antisense	2.39	1.21	-1.18	+/NS	
ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	protein coding	3.96	2.78	-1.18	+/+	
ENSG00000123989	CHPF	chondroitin polymerizing factor [Source:HGNC Symbol;Acc:HGNC:24291]	protein coding	2.61	1.42	-1.19	+/NS	
ENSG00000127528	KLF2	Kruppel like factor 2 [Source:HGNC Symbol;Acc:HGNC:6347]	protein coding	2.74	1.55	-1.19	+/NS	
ENSG00000184371	CSF1	colony stimulating factor 1 [Source:HGNC Symbol;Acc:HGNC:2432]	protein coding	3.23	2.04	-1.19	+/NS	
ENSG00000122435	TRMT13	tRNA methyltransferase 13 homolog [Source:HGNC Symbol;Acc:HGNC:25502]	protein coding	2.36	1.16	-1.20	+/NS	
ENSG00000099203	TMED1	transmembrane p24 trafficking protein 1 [Source:HGNC Symbol;Acc:HGNC:17291]	protein coding	2.02	0.81	-1.20	+/NS	
ENSG00000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	protein coding	2.93	1.73	-1.20	+/NS	
ENSG00000096968	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]	protein coding	3.05	1.84	-1.21	+/NS	
ENSG00000124574	ABCC10	ATP binding cassette subfamily C member 10 [Source:HGNC Symbol;Acc:HGNC:52]	protein coding	2.60	1.39	-1.21	+/NS	
ENSG00000174365	SNHG11	small nucleolar RNA host gene 11 [Source:HGNC Symbol;Acc:HGNC:25046]	processed transcript	2.23	1.01	-1.21	+/NS	
ENSG00000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]	transcribed unprocessed pseudogene	2.51	1.30	-1.21	+/NS	
ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	protein coding	2.56	1.34	-1.22	+/NS	

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ENSG00000077454	LRCH4	leucine rich repeats and calponin homology domain containing 4 [Source:HGNC Symbol;Acc:HGNC:6691]	protein coding	3.39	2.16	-1.23	+/NS	
ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	protein coding	3.73	2.50	-1.24	+/NS	
ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]	protein coding	2.83	1.60	-1.24	+/NS	
ENSG00000105699	LSR	lipolysis stimulated lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:29572]	protein coding	2.43	1.19	-1.24	+/NS	
ENSG00000120889	TNFRSF10B	TNF receptor superfamily member 10b [Source:HGNC Symbol;Acc:HGNC:11905]	protein coding	2.88	1.64	-1.24	+/NS	
ENSG00000154265	ABC A5	ATP binding cassette subfamily A member 5 [Source:HGNC Symbol;Acc:HGNC:35]	protein coding	2.39	1.15	-1.24	+/NS	
ENSG00000145908	ZNF300	zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13091]	protein coding	3.32	2.07	-1.24	+/NS	
ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	protein coding	6.20	4.95	-1.24	+/+	
ENSG00000120451	SNX19	sorting nexin 19 [Source:HGNC Symbol;Acc:HGNC:21532]	protein coding	2.40	1.16	-1.25	+/NS	
ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]	protein coding	3.60	2.34	-1.26	+/+	
ENSG00000135334	AKIRIN2	akirin 2 [Source:HGNC Symbol;Acc:HGNC:21407]	protein coding	2.09	0.82	-1.27	+/NS	
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	8.15	6.88	-1.28	+/+	
ENSG00000128016	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:HGNC:12862]	protein coding	2.71	1.42	-1.28	+/NS	
ENSG00000088038	CNOT3	CCR4-NOT transcription complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:7879]	protein coding	2.24	0.96	-1.28	+/NS	
ENSG00000227500	SCAMP4	secretory carrier membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:30385]	protein coding	2.17	0.89	-1.28	+/NS	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	4.37	3.09	-1.29	+/+	
ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]	protein coding	2.06	0.76	-1.29	+/NS	
ENSG00000134986	NREP	neuronal regeneration related protein [Source:HGNC Symbol;Acc:HGNC:16834]	protein coding	-1.39	-2.69	-1.29	NS/-	
ENSG00000213160	KLHL23	kelch like family member 23 [Source:HGNC Symbol;Acc:HGNC:27506]	protein coding	-1.31	-2.61	-1.30	NS/-	
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	protein coding	-2.18	-3.48	-1.30	-/-	
ENSG00000119048	UBE2B	ubiquitin conjugating enzyme E2 B [Source:HGNC Symbol;Acc:HGNC:12473]	protein coding	2.21	0.91	-1.30	+/NS	
ENSG00000072364	AFF4	AF4/FMR2 family member 4 [Source:HGNC Symbol;Acc:HGNC:17869]	protein coding	2.37	1.07	-1.30	+/NS	
ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	protein coding	4.33	3.03	-1.30	+/NS	

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ENSG00000105223	PLD3	phospholipase D family member 3 [Source:HGNC Symbol;Acc:HGNC:17158]	protein coding	2.03	0.72	-1.31	+/NS	
ENSG00000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]	protein coding	2.38	1.07	-1.31	+/NS	
ENSG00000156639	ZFAND3	zinc finger AN1-type containing 3 [Source:HGNC Symbol;Acc:HGNC:18019]	protein coding	2.94	1.62	-1.32	+/NS	
ENSG00000214063	TSPAN4	tetraspanin 4 [Source:HGNC Symbol;Acc:HGNC:11859]	protein coding	2.26	0.94	-1.32	+/NS	
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	protein coding	5.96	4.63	-1.33	+/+	
ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	protein coding	2.29	0.95	-1.34	+/NS	
ENSG00000175556	LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:HGNC:21152]	protein coding	2.25	0.90	-1.35	+/NS	
ENSG00000169359	SLC33A1	solute carrier family 33 member 1 [Source:HGNC Symbol;Acc:HGNC:95]	protein coding	2.26	0.91	-1.36	+/NS	
ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	protein coding	3.26	1.90	-1.36	+/NS	
ENSG00000172059	KLF11	Kruppel like factor 11 [Source:HGNC Symbol;Acc:HGNC:11811]	protein coding	2.52	1.15	-1.37	+/NS	
ENSG00000144566	RAB5A	RAB5A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9783]	protein coding	2.13	0.75	-1.37	+/NS	
ENSG00000186866	POFUT2	protein O-fucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:14683]	protein coding	2.33	0.94	-1.39	+/NS	
ENSG00000116117	PARD3B	par-3 family cell polarity regulator beta [Source:HGNC Symbol;Acc:HGNC:14446]	protein coding	2.57	1.18	-1.39	+/NS	
ENSG00000170876	TMEM43	transmembrane protein 43 [Source:HGNC Symbol;Acc:HGNC:28472]	protein coding	2.45	1.05	-1.40	+/NS	
ENSG00000090520	DNAJB11	DnaJ heat shock protein family (Hsp40) member B11 [Source:HGNC Symbol;Acc:HGNC:14889]	protein coding	2.63	1.23	-1.40	+/NS	
ENSG00000101294	HM13	histocompatibility minor 13 [Source:HGNC Symbol;Acc:HGNC:16435]	protein coding	2.37	0.95	-1.42	+/NS	
ENSG00000094975	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:HGNC:1240]	protein coding	2.44	1.01	-1.43	+/NS	
ENSG00000248049	UBA6-AS1	UBA6 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49083]	antisense	2.91	1.48	-1.43	+/NS	
ENSG00000182858	ALG12	ALG12, alpha-1,6-mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:19358]	protein coding	2.12	0.69	-1.43	+/NS	
ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]	protein coding	4.01	2.58	-1.43	+/+	
ENSG00000178078	STAP2	signal transducing adaptor family member 2 [Source:HGNC Symbol;Acc:HGNC:30430]	protein coding	3.30	1.87	-1.43	+/NS	
ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	protein coding	4.80	3.36	-1.44	+/+	
ENSG00000116521	SCAMP3	secretory carrier membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:10565]	protein coding	2.12	0.67	-1.44	+/NS	

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ENSG00000068912	ERLEC1	endoplasmic reticulum lectin 1 [Source:HGNC Symbol;Acc:HGNC:25222]	protein coding	2.06	0.61	-1.44	+/NS	
ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]	protein coding	2.91	1.47	-1.44	+/NS	
ENSG00000197808	ZNF461	zinc finger protein 461 [Source:HGNC Symbol;Acc:HGNC:21629]	protein coding	2.32	0.87	-1.45	+/NS	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	5.36	3.91	-1.45	+/+	
ENSG00000013588	GPRC5A	G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836]	protein coding	3.95	2.50	-1.46	+/NS	
ENSG00000126777	KTN1	kinectin 1 [Source:HGNC Symbol;Acc:HGNC:6467]	protein coding	2.07	0.62	-1.46	+/NS	
ENSG00000124155	PIGT	phosphatidylinositol glycan anchor biosynthesis class T [Source:HGNC Symbol;Acc:HGNC:14938]	protein coding	2.55	1.08	-1.46	+/NS	
ENSG00000162650	ATXN7L2	ataxin 7 like 2 [Source:HGNC Symbol;Acc:HGNC:28713]	protein coding	2.30	0.84	-1.46	+/NS	
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	7.15	5.68	-1.47	+/+	
ENSG00000158411	MITD1	microtubule interacting and trafficking domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25207]	protein coding	2.21	0.74	-1.47	+/NS	
ENSG00000175592	FOSL1	FOS like 1, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:13718]	protein coding	3.51	2.04	-1.47	+/NS	
ENSG00000144837	PLA1A	phospholipase A1 member A [Source:HGNC Symbol;Acc:HGNC:17661]	protein coding	3.35	1.88	-1.47	+/NS	
ENSG00000136770	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1 [Source:HGNC Symbol;Acc:HGNC:20090]	protein coding	2.15	0.68	-1.48	+/NS	
ENSG00000144867	SRPRB	SRP receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:24085]	protein coding	2.67	1.18	-1.49	+/NS	
ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]	protein coding	3.85	2.34	-1.51	+/NS	
ENSG00000119537	KDSR	3-ketodihydroinosine reductase [Source:HGNC Symbol;Acc:HGNC:4021]	protein coding	2.72	1.22	-1.51	+/NS	
ENSG00000073008	PVR	poliovirus receptor [Source:HGNC Symbol;Acc:HGNC:9705]	protein coding	3.13	1.61	-1.52	+/NS	
ENSG00000134970	TMED7	transmembrane p24 trafficking protein 7 [Source:HGNC Symbol;Acc:HGNC:24253]	protein coding	2.03	0.52	-1.52	+/NS	
ENSG00000166436	TRIM66	tripartite motif containing 66 [Source:HGNC Symbol;Acc:HGNC:29005]	protein coding	2.33	0.81	-1.52	+/NS	
ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	protein coding	3.18	1.65	-1.52	+/NS	
ENSG00000183255	PTTG1IP	PTTG1 interacting protein [Source:HGNC Symbol;Acc:HGNC:13524]	protein coding	2.26	0.73	-1.53	+/NS	
ENSG00000136048	DRAM1	DNA damage regulated autophagy modulator 1 [Source:HGNC Symbol;Acc:HGNC:25645]	protein coding	2.34	0.79	-1.55	+/NS	
ENSG00000183098	GPC6	glypican 6 [Source:HGNC Symbol;Acc:HGNC:4454]	protein coding	2.00	0.45	-1.56	+/NS	

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ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	8.40	6.83	-1.57	+/+	
ENSG00000112977	DAP	death associated protein [Source:HGNC Symbol;Acc:HGNC:2672]	protein coding	2.20	0.63	-1.57	+/NS	
ENSG00000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	protein coding	3.15	1.58	-1.57	+/NS	
ENSG00000112473	SLC39A7	solute carrier family 39 member 7 [Source:HGNC Symbol;Acc:HGNC:4927]	protein coding	2.24	0.66	-1.58	+/NS	
ENSG00000196547	MAN2A2	mannosidase alpha class 2A member 2 [Source:HGNC Symbol;Acc:HGNC:6825]	protein coding	2.13	0.54	-1.58	+/NS	
ENSG00000090530	P3H2	prolyl 3-hydroxylase 2 [Source:HGNC Symbol;Acc:HGNC:19317]	protein coding	2.58	0.98	-1.60	+/NS	
ENSG00000165030	NFIL3	nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:7787]	protein coding	2.42	0.82	-1.60	+/NS	
ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	protein coding	2.45	0.85	-1.60	+/NS	
ENSG00000280670	CCDC163	coiled-coil domain containing 163 [Source:HGNC Symbol;Acc:HGNC:27003]	protein coding	2.81	1.21	-1.61	+/NS	
ENSG00000174804	FZD4	frizzled class receptor 4 [Source:HGNC Symbol;Acc:HGNC:4042]	protein coding	2.53	0.92	-1.61	+/NS	
ENSG00000106638	TBL2	transducin beta like 2 [Source:HGNC Symbol;Acc:HGNC:11586]	protein coding	2.88	1.27	-1.61	+/NS	
ENSG00000100219	XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:HGNC:12801]	protein coding	2.71	1.10	-1.61	+/NS	
ENSG00000184270	HIST2H2AB	histone cluster 2 H2A family member b [Source:HGNC Symbol;Acc:HGNC:20508]	protein coding	2.18	0.57	-1.61	+/NS	
ENSG00000115307	AUP1	AUP1, lipid droplet regulating VLDL assembly factor [Source:HGNC Symbol;Acc:HGNC:891]	protein coding	3.00	1.39	-1.61	+/NS	
ENSG00000134352	IL6ST	interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:6021]	protein coding	2.00	0.39	-1.62	+/NS	
ENSG00000163898	LIPH	lipase H [Source:HGNC Symbol;Acc:HGNC:18483]	protein coding	2.38	0.76	-1.62	+/NS	
ENSG00000189060	H1F0	H1 histone family member 0 [Source:HGNC Symbol;Acc:HGNC:4714]	protein coding	2.95	1.33	-1.63	+/NS	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	4.47	2.84	-1.63	+/+	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	5.55	3.92	-1.64	+/+	
ENSG00000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]	protein coding	2.28	0.64	-1.64	+/NS	
ENSG00000163703	CRELD1	cysteine rich with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:14630]	protein coding	3.08	1.43	-1.65	+/NS	
ENSG00000008311	AASS	aminoacidate-semialdehyde synthase [Source:HGNC Symbol;Acc:HGNC:17366]	protein coding	2.52	0.87	-1.66	+/NS	
ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	protein coding	3.18	1.51	-1.67	+/NS	

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ENSG00000162407	PLPP3	phospholipid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:9229]	protein coding	2.31	0.63	-1.67	+/NS	
ENSG00000065485	PDIA5	protein disulfide isomerase family A member 5 [Source:HGNC Symbol;Acc:HGNC:24811]	protein coding	2.41	0.73	-1.68	+/NS	
ENSG00000182934	SRPRA	SRP receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:11307]	protein coding	2.26	0.58	-1.68	+/NS	
ENSG00000113504	SLC12A7	solute carrier family 12 member 7 [Source:HGNC Symbol;Acc:HGNC:10915]	protein coding	2.50	0.82	-1.68	+/NS	
ENSG00000065526	SPEN	spen family transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:17575]	protein coding	2.30	0.62	-1.69	+/NS	
ENSG00000095209	TMEM38B	transmembrane protein 38B [Source:HGNC Symbol;Acc:HGNC:25535]	protein coding	2.16	0.46	-1.70	+/NS	
ENSG00000204070	SYS1	SYS1, golgi trafficking protein [Source:HGNC Symbol;Acc:HGNC:16162]	protein coding	2.73	1.03	-1.70	+/NS	
ENSG00000161638	ITGA5	integrin subunit alpha 5 [Source:HGNC Symbol;Acc:HGNC:6141]	protein coding	2.16	0.44	-1.72	+/NS	
ENSG00000151229	SLC2A13	solute carrier family 2 member 13 [Source:HGNC Symbol;Acc:HGNC:15956]	protein coding	2.03	0.32	-1.72	+/NS	
ENSG00000130202	NECTIN2	nectin cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:9707]	protein coding	2.97	1.24	-1.73	+/NS	
ENSG00000167645	YIF1B	Yip1 interacting factor homolog B, membrane trafficking protein [Source:HGNC Symbol;Acc:HGNC:30511]	protein coding	2.60	0.87	-1.73	+/NS	
ENSG00000172071	EIF2AK3	eukaryotic translation initiation factor 2 alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:3255]	protein coding	3.15	1.42	-1.73	+/NS	
ENSG00000135919	SERPINE2	serpin family E member 2 [Source:HGNC Symbol;Acc:HGNC:8951]	protein coding	2.56	0.82	-1.74	+/NS	
ENSG00000116761	CTH	cystathione gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	4.22	2.48	-1.74	+/+	
ENSG00000158158	CNNM4	cyclin and CBS domain divalent metal cation transport mediator 4 [Source:HGNC Symbol;Acc:HGNC:105]	protein coding	2.08	0.34	-1.74	+/NS	
ENSG00000143669	LYST	lysosomal trafficking regulator [Source:HGNC Symbol;Acc:HGNC:1968]	protein coding	2.06	0.32	-1.74	+/NS	
ENSG00000059769	DNAJC25	DnaJ heat shock protein family (Hsp40) member C25 [Source:HGNC Symbol;Acc:HGNC:34187]	protein coding	2.12	0.37	-1.75	+/NS	
ENSG00000173230	GOLGB1	golgin B1 [Source:HGNC Symbol;Acc:HGNC:4429]	protein coding	2.26	0.50	-1.76	+/NS	
ENSG00000147852	VLDLR	very low density lipoprotein receptor [Source:HGNC Symbol;Acc:HGNC:12698]	protein coding	2.97	1.20	-1.77	+/NS	
ENSG00000058262	SEC61A1	Sec61 translocon alpha 1 subunit [Source:HGNC Symbol;Acc:HGNC:18276]	protein coding	2.16	0.38	-1.78	+/NS	
ENSG00000131591	C1orf159	chromosome 1 open reading frame 159 [Source:HGNC Symbol;Acc:HGNC:26062]	protein coding	2.74	0.96	-1.79	+/NS	
ENSG00000166224	SGPL1	sphingosine-1-phosphate lyase 1 [Source:HGNC Symbol;Acc:HGNC:10817]	protein coding	2.04	0.25	-1.79	+/NS	

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ENSG00000167978	SRRM2	serine/arginine repetitive matrix 2 [Source:HGNC Symbol;Acc:HGNC:16639]	protein coding	2.63	0.85	-1.79	+/NS	
ENSG00000132406	TMEM128	transmembrane protein 128 [Source:HGNC Symbol;Acc:HGNC:28201]	protein coding	2.57	0.77	-1.80	+/NS	
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	protein coding	-2.35	-4.15	-1.80	-/-	
ENSG00000205155	PSENEN	presenilin enhancer, gamma-secretase subunit [Source:HGNC Symbol;Acc:HGNC:30100]	protein coding	2.93	1.13	-1.80	+/NS	
ENSG00000168386	FILIP1L	filamin A interacting protein 1 like [Source:HGNC Symbol;Acc:HGNC:24589]	protein coding	3.18	1.37	-1.81	+/NS	
ENSG00000136868	SLC31A1	solute carrier family 31 member 1 [Source:HGNC Symbol;Acc:HGNC:11016]	protein coding	2.22	0.40	-1.82	+/NS	
ENSG00000116857	TMEM9	transmembrane protein 9 [Source:HGNC Symbol;Acc:HGNC:18823]	protein coding	2.13	0.30	-1.83	+/NS	
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	5.65	3.82	-1.83	+/+	
ENSG00000229644	NAMPTP1	nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633]	processed pseudogene	2.15	0.32	-1.83	+/NS	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	5.56	3.72	-1.84	+/+	
ENSG00000131871	SELENOS	seleoprotein S [Source:HGNC Symbol;Acc:HGNC:30396]	protein coding	3.60	1.76	-1.84	+/NS	
ENSG00000147027	TMEM47	transmembrane protein 47 [Source:HGNC Symbol;Acc:HGNC:18515]	protein coding	2.58	0.74	-1.84	+/NS	
ENSG00000137207	YIPF3	Yip1 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:21023]	protein coding	2.65	0.80	-1.85	+/NS	
ENSG00000157837	SPPL3	signal peptide peptidase like 3 [Source:HGNC Symbol;Acc:HGNC:30424]	protein coding	2.30	0.44	-1.86	+/NS	
ENSG00000102580	DNAJC3	DnaJ heat shock protein family (Hsp40) member C3 [Source:HGNC Symbol;Acc:HGNC:9439]	protein coding	2.63	0.77	-1.86	+/NS	
ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]	protein coding	5.90	4.03	-1.87	+/NS	
ENSG00000147649	MTDH	metadherin [Source:HGNC Symbol;Acc:HGNC:29608]	protein coding	2.41	0.54	-1.87	+/NS	
ENSG00000133460	SLC2A11	solute carrier family 2 member 11 [Source:HGNC Symbol;Acc:HGNC:14239]	protein coding	2.02	0.15	-1.87	+/NS	
ENSG00000178229	ZNF543	zinc finger protein 543 [Source:HGNC Symbol;Acc:HGNC:25281]	protein coding	2.14	0.26	-1.88	+/NS	
ENSG00000201998	SNORA23	small nucleolar RNA, H/ACA box 23 [Source:HGNC Symbol;Acc:HGNC:32613]	snoRNA	2.55	0.67	-1.88	+/NS	
ENSG00000222281	RN7SKP111	RNA, 7SK small nuclear pseudogene 111 [Source:HGNC Symbol;Acc:HGNC:45835]	misc RNA	3.11	1.22	-1.88	+/NS	
ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	protein coding	6.67	4.78	-1.89	+/+	
ENSG00000142408	CACNG8	calcium voltage-gated channel auxiliary subunit gamma 8 [Source:HGNC Symbol;Acc:HGNC:13628]	protein coding	5.58	3.69	-1.89	+/NS	

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ENSG00000140465	CYP1A1	cytochrome P450 family 1 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2595]	protein coding	2.62	0.72	-1.89	+/NS	
ENSG00000157637	SLC38A10	solute carrier family 38 member 10 [Source:HGNC Symbol;Acc:HGNC:28237]	protein coding	2.65	0.76	-1.90	+/NS	
ENSG00000146648	EGFR	epidermal growth factor receptor [Source:HGNC Symbol;Acc:HGNC:3236]	protein coding	2.24	0.34	-1.90	+/NS	
ENSG00000100532	CGRRF1	cell growth regulator with ring finger domain 1 [Source:HGNC Symbol;Acc:HGNC:15528]	protein coding	2.63	0.72	-1.91	+/NS	
ENSG00000036672	USP2	ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:12618]	protein coding	2.87	0.96	-1.91	+/NS	
ENSG00000167601	AXL	AXL receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:905]	protein coding	3.54	1.62	-1.92	+/NS	
ENSG00000130203	APOE	apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]	protein coding	2.43	0.51	-1.92	+/NS	
ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]	protein coding	5.58	3.66	-1.92	+/NS	
ENSG00000118257	NRP2	neuropilin 2 [Source:HGNC Symbol;Acc:HGNC:8005]	protein coding	3.32	1.40	-1.92	+/NS	
ENSG00000258102	MAP1LC3B2	microtubule associated protein 1 light chain 3 beta 2 [Source:HGNC Symbol;Acc:HGNC:34390]	protein coding	3.36	1.43	-1.93	+/NS	
ENSG00000163162	RNF149	ring finger protein 149 [Source:HGNC Symbol;Acc:HGNC:23137]	protein coding	2.45	0.52	-1.93	+/NS	
ENSG00000149428	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:HGNC:16931]	protein coding	3.65	1.71	-1.94	+/NS	
ENSG00000114988	LMAN2L	lectin, mannose binding 2 like [Source:HGNC Symbol;Acc:HGNC:19263]	protein coding	2.54	0.60	-1.94	+/NS	
ENSG00000033100	CHPF2	chondroitin polymerizing factor 2 [Source:HGNC Symbol;Acc:HGNC:29270]	protein coding	2.79	0.85	-1.95	+/NS	
ENSG00000117523	PRRC2C	proline rich coiled-coil 2C [Source:HGNC Symbol;Acc:HGNC:24903]	protein coding	2.05	0.10	-1.95	+/NS	
ENSG00000158470	B4GALT5	beta-1,4-galactosyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:928]	protein coding	2.39	0.44	-1.95	+/NS	
ENSG00000197044	ZNF441	zinc finger protein 441 [Source:HGNC Symbol;Acc:HGNC:20875]	protein coding	2.05	0.09	-1.96	+/NS	
ENSG00000204386	NEU1	neuraminidase 1 [Source:HGNC Symbol;Acc:HGNC:7758]	protein coding	4.29	2.33	-1.96	+/NS	
ENSG00000120697	ALG5	ALG5, dolichyl-phosphate beta-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20266]	protein coding	2.27	0.31	-1.96	+/NS	
ENSG00000077232	DNAJC10	DnaJ heat shock protein family (Hsp40) member C10 [Source:HGNC Symbol;Acc:HGNC:24637]	protein coding	2.48	0.51	-1.96	+/NS	
ENSG00000133318	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:HGNC:10469]	protein coding	2.33	0.37	-1.96	+/NS	
ENSG00000025796	SEC63	SEC63 homolog, protein translocation regulator [Source:HGNC Symbol;Acc:HGNC:21082]	protein coding	2.37	0.40	-1.97	+/NS	
ENSG00000032444	PNPLA6	patatin like phospholipase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:16268]	protein coding	2.46	0.49	-1.98	+/NS	
ENSG00000241935	HOGA1	4-hydroxy-2-oxoglutamate aldolase 1 [Source:HGNC Symbol;Acc:HGNC:25155]	protein coding	-1.39	-3.37	-1.98	NS/-	

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ENSG00000173812	EIF1	eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:HGNC:3249]	protein coding	2.61	0.62	-1.99	+/NS	
ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	protein coding	6.44	4.44	-2.00	+/+	
ENSG00000111725	PRKAB1	protein kinase AMP-activated non-catalytic subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:9378]	protein coding	2.55	0.55	-2.00	+/NS	
ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]	protein coding	3.55	1.55	-2.00	+/NS	
ENSG00000196576	PLXNB2	plexin B2 [Source:HGNC Symbol;Acc:HGNC:9104]	protein coding	2.30	0.30	-2.00	+/NS	
ENSG00000081177	EXD2	exonuclease 3'-5' domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20217]	protein coding	3.33	1.32	-2.01	+/NS	
ENSG00000167114	SLC27A4	solute carrier family 27 member 4 [Source:HGNC Symbol;Acc:HGNC:10998]	protein coding	2.40	0.39	-2.02	+/NS	
ENSG00000118217	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:791]	protein coding	2.96	0.94	-2.02	+/NS	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	5.08	3.05	-2.04	+/+	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	protein coding	5.09	3.05	-2.04	+/NS	
ENSG00000264229	RNU4ATAC	RNA, U4atac small nuclear (U12-dependent splicing) [Source:HGNC Symbol;Acc:HGNC:34016]	snRNA	2.04	-0.00	-2.04	+/NS	
ENSG00000101337	TM9SF4	transmembrane 9 superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:30797]	protein coding	2.12	0.07	-2.05	+/NS	
ENSG00000086598	TMED2	transmembrane p24 trafficking protein 2 [Source:HGNC Symbol;Acc:HGNC:16996]	protein coding	2.04	-0.01	-2.05	+/NS	
ENSG00000164190	NIPBL	NIPBL, cohesin loading factor [Source:HGNC Symbol;Acc:HGNC:28862]	protein coding	2.35	0.30	-2.06	+/NS	
ENSG00000171298	GAA	glucosidase alpha, acid [Source:HGNC Symbol;Acc:HGNC:4065]	protein coding	2.73	0.66	-2.07	+/NS	
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	5.87	3.80	-2.07	+/+	
ENSG00000165282	PIGO	phosphatidylinositol glycan anchor biosynthesis class O [Source:HGNC Symbol;Acc:HGNC:23215]	protein coding	2.07	-0.00	-2.08	+/NS	
ENSG00000185133	INPP5J	inositol polyphosphate-5-phosphatase J [Source:HGNC Symbol;Acc:HGNC:8956]	protein coding	5.05	2.96	-2.09	+/NS	
ENSG00000232829	GSTO3P	glutathione S-transferase omega 3, pseudogene [Source:HGNC Symbol;Acc:HGNC:23065]	processed pseudogene	-1.98	-4.07	-2.09	NS/-	
ENSG00000212609	RNU1-139P	RNA, U1 small nuclear 139, pseudogene [Source:HGNC Symbol;Acc:HGNC:48481]	snRNA	4.98	2.89	-2.09	NS/+	
ENSG00000138688	KIAA1109	KIAA1109 [Source:HGNC Symbol;Acc:HGNC:26953]	protein coding	2.49	0.40	-2.09	+/NS	
ENSG00000164930	FZD6	frizzled class receptor 6 [Source:HGNC Symbol;Acc:HGNC:4044]	protein coding	2.17	0.08	-2.10	+/NS	
ENSG00000090054	SPTLC1	serine palmitoyltransferase long chain base subunit 1 [Source:HGNC Symbol;Acc:HGNC:11277]	protein coding	2.37	0.26	-2.11	+/NS	
ENSG00000164548	TRA2A	transformer 2 alpha homolog [Source:HGNC Symbol;Acc:HGNC:16645]	protein coding	2.14	0.03	-2.11	+/NS	

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ENSG00000121775	TMEM39B	transmembrane protein 39B [Source:HGNC Symbol;Acc:HGNC:25510]	protein coding	2.84	0.72	-2.11	+/NS	
ENSG00000115170	ACVR1	activin A receptor type 1 [Source:HGNC Symbol;Acc:HGNC:171]	protein coding	2.64	0.52	-2.12	+/NS	
ENSG00000254166	CASC19	cancer susceptibility 19 [Source:HGNC Symbol;Acc:HGNC:49476]	processed transcript	2.36	0.23	-2.13	+/NS	
ENSG00000109572	CLCN3	chloride voltage-gated channel 3 [Source:HGNC Symbol;Acc:HGNC:2021]	protein coding	2.16	0.03	-2.13	+/NS	
ENSG00000102158	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:HGNC:28880]	protein coding	2.13	-0.01	-2.13	+/NS	
ENSG00000112414	ADGRG6	adhesion G protein-coupled receptor G6 [Source:HGNC Symbol;Acc:HGNC:13841]	protein coding	2.46	0.33	-2.13	+/NS	
ENSG00000167543	TP53I13	tumor protein p53 inducible protein 13 [Source:HGNC Symbol;Acc:HGNC:25102]	protein coding	2.43	0.30	-2.14	+/NS	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	5.89	3.75	-2.14	+/+	
ENSG00000136026	CKAP4	cytoskeleton associated protein 4 [Source:HGNC Symbol;Acc:HGNC:16991]	protein coding	2.27	0.13	-2.14	+/NS	
ENSG00000188760	TMEM198	transmembrane protein 198 [Source:HGNC Symbol;Acc:HGNC:33704]	protein coding	5.95	3.80	-2.15	+/+	
ENSG00000117500	TMED5	transmembrane p24 trafficking protein 5 [Source:HGNC Symbol;Acc:HGNC:24251]	protein coding	2.39	0.23	-2.15	+/NS	
ENSG00000166340	TPP1	tripeptidyl peptidase 1 [Source:HGNC Symbol;Acc:HGNC:2073]	protein coding	3.42	1.25	-2.17	+/NS	
ENSG00000171603	CLSTN1	calsyntenin 1 [Source:HGNC Symbol;Acc:HGNC:17447]	protein coding	2.18	0.01	-2.18	+/NS	
ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	protein coding	4.45	2.27	-2.18	+/NS	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	7.56	5.38	-2.18	+/+	
ENSG00000213593	TMX2	thioredoxin related transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:30739]	protein coding	2.12	-0.07	-2.18	+/NS	
ENSG00000167323	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:HGNC:11386]	protein coding	2.41	0.22	-2.19	+/NS	
ENSG00000007062	PROM1	prominin 1 [Source:HGNC Symbol;Acc:HGNC:9454]	protein coding	2.18	-0.01	-2.19	+/NS	
ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	protein coding	2.44	0.25	-2.20	+/NS	
ENSG00000151025	GPR158	G protein-coupled receptor 158 [Source:HGNC Symbol;Acc:HGNC:23689]	protein coding	2.72	0.50	-2.22	+/NS	
ENSG00000148154	UGCG	UDP-glucose ceramide glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:12524]	protein coding	2.48	0.26	-2.22	+/NS	
ENSG00000175505	CLCF1	cardiotrophin like cytokine factor 1 [Source:HGNC Symbol;Acc:HGNC:17412]	protein coding	2.90	0.68	-2.22	+/NS	
ENSG00000213614	HEXA	hexosaminidase subunit alpha [Source:HGNC Symbol;Acc:HGNC:4878]	protein coding	2.17	-0.05	-2.22	+/NS	

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ENSG00000146674	IGFBP3	insulin like growth factor binding protein 3 [Source:HGNC Symbol;Acc:HGNC:5472]	protein coding	3.64	1.42	-2.22	+/NS	
ENSG00000184840	TMED9	transmembrane p24 trafficking protein 9 [Source:HGNC Symbol;Acc:HGNC:24878]	protein coding	2.49	0.26	-2.22	+/NS	
ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]	protein coding	4.10	1.88	-2.23	+/NS	
ENSG00000277149	TYW1B	tRNA- γ W synthesizing protein 1 homolog B [Source:HGNC Symbol;Acc:HGNC:33908]	protein coding	3.48	1.24	-2.24	+/NS	
ENSG00000142089	IFITM3	interferon induced transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:5414]	protein coding	4.10	1.87	-2.24	+/NS	
ENSG00000189164	ZNF527	zinc finger protein 527 [Source:HGNC Symbol;Acc:HGNC:29385]	protein coding	2.53	0.28	-2.25	+/NS	
ENSG00000106080	FKBP14	FK506 binding protein 14 [Source:HGNC Symbol;Acc:HGNC:18625]	protein coding	2.74	0.49	-2.25	+/NS	
ENSG00000164266	SPINK1	serine peptidase inhibitor, Kazal type 1 [Source:HGNC Symbol;Acc:HGNC:11244]	protein coding	2.95	0.70	-2.26	+/NS	
ENSG00000120519	SLC10A7	solute carrier family 10 member 7 [Source:HGNC Symbol;Acc:HGNC:23088]	protein coding	2.41	0.14	-2.27	+/NS	
ENSG00000134153	EMC7	ER membrane protein complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:24301]	protein coding	2.60	0.33	-2.28	+/NS	
ENSG00000159348	CYB5R1	cytochrome b5 reductase 1 [Source:HGNC Symbol;Acc:HGNC:13397]	protein coding	2.65	0.37	-2.28	+/NS	
ENSG00000198841	KTI12	KTI12 chromatin associated homolog [Source:HGNC Symbol;Acc:HGNC:25160]	protein coding	2.92	0.64	-2.28	+/NS	
ENSG00000134285	FKBP11	FK506 binding protein 11 [Source:HGNC Symbol;Acc:HGNC:18624]	protein coding	2.95	0.65	-2.30	+/NS	
ENSG00000238835	SCARNA18	small Cajal body-specific RNA 18 [Source:HGNC Symbol;Acc:HGNC:32559]	snoRNA	3.65	1.34	-2.31	+/NS	
ENSG0000006210	CX3CL1	C-X3-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:10647]	protein coding	2.36	0.05	-2.31	+/NS	
ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]	protein coding	4.65	2.34	-2.31	+/NS	
ENSG00000168564	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:HGNC:24325]	protein coding	2.06	-0.26	-2.32	+/NS	
ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	protein coding	5.54	3.22	-2.32	+/NS	
ENSG00000085063	CD59	CD59 molecule (CD59 blood group) [Source:HGNC Symbol;Acc:HGNC:1689]	protein coding	2.49	0.16	-2.33	+/NS	
ENSG00000134480	CCNH	cyclin H [Source:HGNC Symbol;Acc:HGNC:1594]	protein coding	2.12	-0.21	-2.33	+/NS	
ENSG00000163902	RPN1	ribophorin I [Source:HGNC Symbol;Acc:HGNC:10381]	protein coding	2.47	0.13	-2.34	+/NS	
ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]	protein coding	-1.09	-3.44	-2.34	NS/-	
ENSG00000143870	PDIA6	protein disulfide isomerase family A member 6 [Source:HGNC Symbol;Acc:HGNC:30168]	protein coding	2.22	-0.13	-2.35	+/NS	

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ENSG00000151176	PLBD2	phospholipase B domain containing 2 [Source:HGNC Symbol;Acc:HGNC:27283]	protein coding	2.70	0.35	-2.35	+/NS	
ENSG00000197081	IGF2R	insulin like growth factor 2 receptor [Source:HGNC Symbol;Acc:HGNC:5467]	protein coding	2.56	0.21	-2.35	+/NS	
ENSG00000206503	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:HGNC:4931]	protein coding	5.19	2.83	-2.36	+/NS	
ENSG00000174165	ZDHHC24	zinc finger DHHC-type containing 24 [Source:HGNC Symbol;Acc:HGNC:27387]	protein coding	2.69	0.32	-2.37	+/NS	
ENSG00000185624	P4HB	prolyl 4-hydroxylase subunit beta [Source:HGNC Symbol;Acc:HGNC:8548]	protein coding	2.30	-0.07	-2.37	+/NS	
ENSG00000137821	LRRC49	leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:HGNC:25965]	protein coding	4.61	2.23	-2.38	+/NS	
ENSG00000116731	PRDM2	PR/SET domain 2 [Source:HGNC Symbol;Acc:HGNC:9347]	protein coding	2.24	-0.14	-2.38	+/NS	
ENSG00000171867	PRNP	prion protein [Source:HGNC Symbol;Acc:HGNC:9449]	protein coding	2.60	0.21	-2.39	+/NS	
ENSG00000162344	FGF19	fibroblast growth factor 19 [Source:HGNC Symbol;Acc:HGNC:3675]	protein coding	4.27	1.87	-2.40	+/NS	
ENSG00000207110	RNU1-106P	RNA, U1 small nuclear 106, pseudogene [Source:HGNC Symbol;Acc:HGNC:48448]	snRNA	4.98	2.57	-2.41	NS/+	
ENSG00000118523	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:HGNC:2500]	protein coding	2.84	0.43	-2.41	+/NS	
ENSG00000221914	PPP2R2A	protein phosphatase 2 regulatory subunit Balpha [Source:HGNC Symbol;Acc:HGNC:9304]	protein coding	2.43	0.02	-2.42	+/NS	
ENSG00000231925	TAPBP	TAP binding protein [Source:HGNC Symbol;Acc:HGNC:11566]	protein coding	3.46	1.05	-2.42	+/NS	
ENSG00000135124	P2RX4	purinergic receptor P2X 4 [Source:HGNC Symbol;Acc:HGNC:8535]	protein coding	2.68	0.26	-2.42	+/NS	
ENSG00000134343	ANO3	anoctamin 3 [Source:HGNC Symbol;Acc:HGNC:14004]	protein coding	2.68	0.25	-2.42	+/NS	
ENSG00000120725	SIL1	SIL1 nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:24624]	protein coding	2.19	-0.24	-2.42	+/NS	
ENSG00000117479	SLC19A2	solute carrier family 19 member 2 [Source:HGNC Symbol;Acc:HGNC:10938]	protein coding	2.51	0.08	-2.43	+/NS	
ENSG00000222465	RNU2-5P	RNA, U2 small nuclear 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10155]	snRNA	2.24	-0.20	-2.44	+/NS	
ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]	protein coding	2.21	-0.24	-2.44	+/NS	
ENSG00000185896	LAMP1	lysosomal associated membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:6499]	protein coding	2.21	-0.25	-2.45	+/NS	
ENSG00000071537	SEL1L	SEL1L, ERAD E3 ligase adaptor subunit [Source:HGNC Symbol;Acc:HGNC:10717]	protein coding	2.75	0.29	-2.46	+/NS	
ENSG00000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	protein coding	2.57	0.11	-2.46	+/NS	
ENSG00000172270	BSG	basigin (Ok blood group) [Source:HGNC Symbol;Acc:HGNC:1116]	protein coding	2.07	-0.40	-2.47	+/NS	

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ENSG00000104805	NUCB1	nucleobindin 1 [Source:HGNC Symbol;Acc:HGNC:8043]	Symbol;Acc:HGNC:8043]	Sym-	protein coding	2.59	0.11	-2.48	+/NS	
ENSG00000134294	SLC38A2	solute carrier family 38 member 2 [Source:HGNC Symbol;Acc:HGNC:13448]	Symbol;Acc:HGNC:13448]	Sym-	protein coding	2.30	-0.19	-2.49	+/NS	
ENSG00000141756	FKBP10	FK506 binding protein 10 [Source:HGNC Symbol;Acc:HGNC:18169]	Symbol;Acc:HGNC:18169]	Sym-	protein coding	2.92	0.43	-2.50	+/NS	
ENSG00000201183	RNVU1-3	RNA, variant U1 small nuclear 3 [Source:HGNC Symbol;Acc:HGNC:48311]	Symbol;Acc:HGNC:48311]	Sym-	snRNA	2.88	0.38	-2.50	+/NS	
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3797]	Symbol;Acc:HGNC:3797]	Sym-	protein coding	6.59	4.08	-2.51	+/+	
ENSG00000169851	PCDH7	protocadherin 7 [Source:HGNC Symbol;Acc:HGNC:8659]	Symbol;Acc:HGNC:8659]	Sym-	protein coding	2.85	0.32	-2.53	+/NS	
ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	Symbol;Acc:HGNC:9596]	Sym-	protein coding	5.39	2.86	-2.53	+/NS	
ENSG00000109736	MFSD10	major facilitator superfamily domain containing 10 [Source:HGNC Symbol;Acc:HGNC:16894]	Symbol;Acc:HGNC:16894]	Sym-	protein coding	3.30	0.76	-2.54	+/NS	
ENSG00000104635	SLC39A14	solute carrier family 39 member 14 [Source:HGNC Symbol;Acc:HGNC:20858]	Symbol;Acc:HGNC:20858]	Sym-	protein coding	2.47	-0.08	-2.55	+/NS	
ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	Symbol;Acc:HGNC:45961]	Sym-	misc RNA	2.22	-0.33	-2.55	+/NS	
ENSG00000148248	SURF4	surfeit 4 [Source:HGNC Symbol;Acc:HGNC:11476]	Symbol;Acc:HGNC:11476]	Sym-	protein coding	2.76	0.20	-2.55	+/NS	
ENSG00000141424	SLC39A6	solute carrier family 39 member 6 [Source:HGNC Symbol;Acc:HGNC:18607]	Symbol;Acc:HGNC:18607]	Sym-	protein coding	2.39	-0.17	-2.56	+/NS	
ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	Symbol;Acc:HGNC:2529]	Sym-	protein coding	3.69	1.13	-2.56	+/NS	
ENSG00000166479	TMX3	thioredoxin related transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:24718]	Symbol;Acc:HGNC:24718]	Sym-	protein coding	2.64	0.08	-2.56	+/NS	
ENSG00000252577	SCARNA20	small Cajal body-specific RNA 20 [Source:HGNC Symbol;Acc:HGNC:32578]	Symbol;Acc:HGNC:32578]	Sym-	scaRNA	2.23	-0.34	-2.57	+/NS	
ENSG00000088451	TGDS	TDP-glucose 4,6-dehydratase [Source:HGNC Symbol;Acc:HGNC:20324]	Symbol;Acc:HGNC:20324]	Sym-	protein coding	2.99	0.40	-2.58	+/NS	
ENSG00000001036	FUCA2	alpha-L-fucosidase 2 [Source:HGNC Symbol;Acc:HGNC:4008]	Symbol;Acc:HGNC:4008]	Sym-	protein coding	2.07	-0.52	-2.59	+/NS	
ENSG00000140853	NLRC5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	Symbol;Acc:HGNC:29933]	Sym-	protein coding	5.69	3.09	-2.60	+/+	
ENSG00000198171	DDRGK1	DDRGK domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16110]	Symbol;Acc:HGNC:16110]	Sym-	protein coding	3.14	0.54	-2.60	+/NS	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	Symbol;Acc:HGNC:11374]	Sym-	protein coding	7.73	5.13	-2.60	+/+	
ENSG00000162736	NCSTN	nicastrin [Source:HGNC Symbol;Acc:HGNC:17091]	Symbol;Acc:HGNC:17091]	Sym-	protein coding	2.27	-0.34	-2.61	+/NS	
ENSG00000051523	CYBA	cytochrome b-245 alpha chain [Source:HGNC Symbol;Acc:HGNC:2577]	Symbol;Acc:HGNC:2577]	Sym-	protein coding	2.15	-0.46	-2.61	+/NS	
ENSG00000150687	PRSS23	serine protease 23 [Source:HGNC Symbol;Acc:HGNC:14370]	Symbol;Acc:HGNC:14370]	Sym-	protein coding	3.27	0.66	-2.61	+/NS	
ENSG00000131507	NDFIP1	Nedd4 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:17592]	Symbol;Acc:HGNC:17592]	Sym-	protein coding	2.17	-0.46	-2.63	+/NS	

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ENSG00000140497	SCAMP2	secretory carrier membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:10564]	protein coding	2.71	0.07	-2.63	+/NS	
ENSG00000170017	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:400]	protein coding	2.01	-0.63	-2.64	+/NS	
ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	protein coding	3.78	1.14	-2.64	+/NS	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	10.16	7.53	-2.64	+/+	
ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	protein coding	4.90	2.26	-2.64	+/NS	
ENSG00000006576	PHTF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	protein coding	2.76	0.11	-2.65	+/NS	
ENSG00000137216	TMEM63B	transmembrane protein 63B [Source:HGNC Symbol;Acc:HGNC:17735]	protein coding	2.08	-0.58	-2.66	+/NS	
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	protein coding	7.15	4.47	-2.68	+/+	
ENSG00000157181	ODR4	odr-4 GPCR localization factor homolog [Source:HGNC Symbol;Acc:HGNC:24299]	protein coding	3.21	0.52	-2.69	+/NS	
ENSG00000180879	SSR4	signal sequence receptor subunit 4 [Source:HGNC Symbol;Acc:HGNC:11326]	protein coding	2.69	-0.00	-2.69	+/NS	
ENSG00000214765	SEPT7P2	septin 7 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:32339]	transcribed unprocessed pseudogene	2.61	-0.08	-2.69	+/NS	
ENSG00000123384	LRP1	LDL receptor related protein 1 [Source:HGNC Symbol;Acc:HGNC:6692]	protein coding	2.04	-0.65	-2.69	+/NS	
ENSG00000177666	PNPLA2	patatin like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30802]	protein coding	3.24	0.55	-2.69	+/NS	
ENSG00000100979	PLTP	phospholipid transfer protein [Source:HGNC Symbol;Acc:HGNC:9093]	protein coding	2.42	-0.28	-2.70	+/NS	
ENSG00000128590	DNAJB9	DnaJ heat shock protein family (Hsp40) member B9 [Source:HGNC Symbol;Acc:HGNC:6968]	protein coding	4.19	1.49	-2.70	+/NS	
ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]	protein coding	2.67	-0.05	-2.71	+/NS	
ENSG00000173085	COQ2	coenzyme Q2, polyprenyltransferase [Source:HGNC Symbol;Acc:HGNC:25223]	protein coding	2.82	0.07	-2.75	+/NS	
ENSG00000066322	ELOVL1	ELOVL fatty acid elongase 1 [Source:HGNC Symbol;Acc:HGNC:14418]	protein coding	2.16	-0.59	-2.76	+/NS	
ENSG00000117385	P3H1	prolyl 3-hydroxylase 1 [Source:HGNC Symbol;Acc:HGNC:19316]	protein coding	2.30	-0.47	-2.78	+/NS	
ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	protein coding	4.41	1.63	-2.78	+/NS	
ENSG00000074695	LMAN1	lectin, mannose binding 1 [Source:HGNC Symbol;Acc:HGNC:6631]	protein coding	2.28	-0.50	-2.78	+/NS	
ENSG00000181458	TMEM45A	transmembrane protein 45A [Source:HGNC Symbol;Acc:HGNC:25480]	protein coding	2.55	-0.23	-2.78	+/NS	

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ENSG00000157429	ZNF19	zinc finger protein 19 [Source:HGNC Symbol;Acc:HGNC:12981]	protein coding	2.82	0.03	-2.79	+/NS	
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	protein coding	4.16	1.36	-2.80	+/NS	
ENSG00000166311	SMPD1	sphingomyelin phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:11120]	protein coding	4.21	1.40	-2.81	+/NS	
ENSG00000136816	TOR1B	torsin family 1 member B [Source:HGNC Symbol;Acc:HGNC:11995]	protein coding	2.65	-0.17	-2.82	+/NS	
ENSG00000139641	ESYT1	extended synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:29534]	protein coding	2.92	0.10	-2.82	+/NS	
ENSG00000162695	SLC30A7	solute carrier family 30 member 7 [Source:HGNC Symbol;Acc:HGNC:19306]	protein coding	3.10	0.28	-2.82	+/NS	
ENSG00000177697	CD151	CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:HGNC:1630]	protein coding	2.67	-0.17	-2.84	+/NS	
ENSG0000023318	ERP44	endoplasmic reticulum protein 44 [Source:HGNC Symbol;Acc:HGNC:18311]	protein coding	2.60	-0.24	-2.84	+/NS	
ENSG00000212907	MT-ND4L	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4L [Source:HGNC Symbol;Acc:HGNC:7460]	protein coding	3.29	0.43	-2.85	+/NS	
ENSG00000166794	PPIB	peptidyl prolyl isomerase B [Source:HGNC Symbol;Acc:HGNC:9255]	protein coding	3.13	0.27	-2.85	+/NS	
ENSG00000180867	PDIA3P1	protein disulfide isomerase family A member 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4607]	transcribed processed pseudo-gene	2.46	-0.40	-2.86	+/NS	
ENSG00000110169	HPX	hemopexin [Source:HGNC Symbol;Acc:HGNC:5171]	protein coding	2.06	-0.81	-2.87	+/NS	
ENSG00000146828	SLC12A9	solute carrier family 12 member 9 [Source:HGNC Symbol;Acc:HGNC:17435]	protein coding	2.59	-0.29	-2.88	+/NS	
ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]	protein coding	3.93	1.04	-2.89	+/NS	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	6.55	3.63	-2.91	+/+	
ENSG00000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]	protein coding	4.66	1.74	-2.92	+/NS	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	7.89	4.93	-2.97	+/+	
ENSG00000135052	GOLM1	golgi membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:15451]	protein coding	2.32	-0.66	-2.98	+/NS	
ENSG00000118596	SLC16A7	solute carrier family 16 member 7 [Source:HGNC Symbol;Acc:HGNC:10928]	protein coding	2.30	-0.68	-2.98	+/NS	
ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutamate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]	protein coding	3.62	0.61	-3.01	+/NS	
ENSG00000200379	RN7SKP45	RNA, 7SK small nuclear pseudogene 45 [Source:HGNC Symbol;Acc:HGNC:45769]	misc RNA	2.18	-0.84	-3.02	+/NS	
ENSG00000124145	SDC4	syndecan 4 [Source:HGNC Symbol;Acc:HGNC:10661]	protein coding	4.09	1.07	-3.02	+/NS	
ENSG00000177058	SLC38A9	solute carrier family 38 member 9 [Source:HGNC Symbol;Acc:HGNC:26907]	protein coding	2.81	-0.25	-3.06	+/NS	

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ENSG00000202360	RN7SKP249	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45973]	misc RNA	3.26	0.19	-3.07	+/NS	
ENSG00000141458	NPC1	NPC intracellular cholesterol transporter 1 [Source:HGNC Symbol;Acc:HGNC:7897]	protein coding	2.83	-0.24	-3.07	+/NS	
ENSG00000110344	UBE4A	ubiquitination factor E4A [Source:HGNC Symbol;Acc:HGNC:12499]	protein coding	2.32	-0.76	-3.07	+/NS	
ENSG0000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]	protein coding	3.96	0.85	-3.11	+/NS	
ENSG00000108588	CCDC47	coiled-coil domain containing 47 [Source:HGNC Symbol;Acc:HGNC:24856]	protein coding	2.30	-0.81	-3.11	+/NS	
ENSG0000050344	NFE2L3	nuclear factor, erythroid 2 like 3 [Source:HGNC Symbol;Acc:HGNC:7783]	protein coding	3.69	0.57	-3.11	+/NS	
ENSG00000135506	OS9	OS9, endoplasmic reticulum lectin [Source:HGNC Symbol;Acc:HGNC:16994]	protein coding	2.83	-0.30	-3.13	+/NS	
ENSG00000166710	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:HGNC:914]	protein coding	3.66	0.53	-3.13	+/NS	
ENSG0000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	protein coding	6.12	2.99	-3.13	+/NS	
ENSG00000135744	AGT	angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]	protein coding	2.34	-0.80	-3.14	+/NS	
ENSG00000152291	TGOLN2	trans-golgi network protein 2 [Source:HGNC Symbol;Acc:HGNC:15450]	protein coding	2.43	-0.72	-3.15	+/NS	
ENSG00000164307	ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:18173]	protein coding	2.20	-0.98	-3.18	+/NS	
ENSG00000101474	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:HGNC:13238]	protein coding	2.38	-0.80	-3.19	+/NS	
ENSG00000218336	TENM3	teneurin transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:29944]	protein coding	3.25	0.05	-3.20	+/NS	
ENSG00000123131	PRDX4	peroxiredoxin 4 [Source:HGNC Symbol;Acc:HGNC:17169]	protein coding	2.68	-0.55	-3.23	+/NS	
ENSG0000064601	CTSA	cathepsin A [Source:HGNC Symbol;Acc:HGNC:9251]	protein coding	2.52	-0.72	-3.24	+/NS	
ENSG00000145050	MANF	mesencephalic astrocyte derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:15461]	protein coding	4.53	1.27	-3.25	+/NS	
ENSG0000030582	GRN	granulin precursor [Source:HGNC Symbol;Acc:HGNC:4601]	protein coding	3.41	0.13	-3.28	+/NS	
ENSG00000155660	PDIA4	protein disulfide isomerase family A member 4 [Source:HGNC Symbol;Acc:HGNC:30167]	protein coding	3.53	0.24	-3.29	+/NS	
ENSG0000049860	HEXB	hexosaminidase subunit beta [Source:HGNC Symbol;Acc:HGNC:4879]	protein coding	3.06	-0.23	-3.29	+/NS	
ENSG00000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]	protein coding	2.37	-0.92	-3.29	+/NS	
ENSG0000071553	ATP6AP1	ATPase H+ transporting accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:868]	protein coding	4.41	1.07	-3.35	+/NS	
ENSG00000234745	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:HGNC:4932]	protein coding	5.73	2.37	-3.36	+/NS	
ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	protein coding	2.47	-0.92	-3.38	+/NS	

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ENSG00000168938	PPIC	peptidyl prolyl isomerase C [Source:HGNC Symbol;Acc:HGNC:9256]	protein coding	2.48	-0.91	-3.38	+/NS	
ENSG00000150093	ITGB1	integrin subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:6153]	protein coding	2.00	-1.39	-3.39	+/NS	
ENSG00000145623	OSMR	oncostatin M receptor [Source:HGNC Symbol;Acc:HGNC:8507]	protein coding	2.60	-0.80	-3.40	+/NS	
ENSG00000165655	ZNF503	zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23589]	protein coding	5.44	2.03	-3.41	+/NS	
ENSG00000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	protein coding	2.08	-1.36	-3.43	+/NS	
ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]	protein coding	6.13	2.69	-3.44	+/NS	
ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	protein coding	2.71	-0.72	-3.44	+/NS	
ENSG0000068697	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:HGNC:6924]	protein coding	3.05	-0.39	-3.45	+/NS	
ENSG00000116209	TMEM59	transmembrane protein 59 [Source:HGNC Symbol;Acc:HGNC:1239]	protein coding	2.49	-0.96	-3.45	+/NS	
ENSG00000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]	protein coding	5.28	1.83	-3.46	+/NS	
ENSG00000145246	ATP10D	ATPase phospholipid transporting 10D (putative) [Source:HGNC Symbol;Acc:HGNC:13549]	protein coding	3.85	0.39	-3.46	+/NS	
ENSG0000079385	CEACAM1	carcinoembryonic antigen related cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:1814]	protein coding	3.64	0.17	-3.47	+/NS	
ENSG00000109072	VTN	vitronectin [Source:HGNC Symbol;Acc:HGNC:12724]	protein coding	3.07	-0.41	-3.47	+/NS	
ENSG00000244038	DDOST	dolichyl-diphosphooligosaccharide–protein glycosyltransferase non-catalytic subunit [Source:HGNC Symbol;Acc:HGNC:2728]	protein coding	3.39	-0.10	-3.48	+/NS	
ENSG00000215375	MYL5	myosin light chain 5 [Source:HGNC Symbol;Acc:HGNC:7586]	protein coding	5.07	1.58	-3.48	+/NS	
ENSG00000139370	SLC15A4	solute carrier family 15 member 4 [Source:HGNC Symbol;Acc:HGNC:23090]	protein coding	3.83	0.33	-3.50	+/NS	
ENSG00000154305	MIA3	MIA SH3 domain ER export factor 3 [Source:HGNC Symbol;Acc:HGNC:24008]	protein coding	2.27	-1.24	-3.51	+/NS	
ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	protein coding	5.24	1.71	-3.53	+/NS	
ENSG00000118705	RPN2	ribophorin II [Source:HGNC Symbol;Acc:HGNC:10382]	protein coding	3.15	-0.39	-3.54	+/NS	
ENSG0000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	protein coding	6.06	2.52	-3.54	+/NS	
ENSG00000111897	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:HGNC:13464]	protein coding	2.53	-1.03	-3.56	+/NS	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	10.01	6.45	-3.57	+/+	
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	protein coding	6.64	3.02	-3.62	+/NS	

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ENSG00000172954	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26756]	protein coding	2.77	-0.86	-3.63	+/NS	
ENSG00000223202	RN7SKP297	RNA, 7SK small nuclear pseudogene 297 [Source:HGNC Symbol;Acc:HGNC:46021]	misc RNA	4.91	1.27	-3.63	+/NS	
ENSG00000198899	MT-ATP6	mitochondrially encoded ATP synthase membrane subunit 6 [Source:HGNC Symbol;Acc:HGNC:7414]	protein coding	2.82	-0.82	-3.64	+/NS	
ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]	protein coding	2.31	-1.33	-3.65	+/NS	
ENSG00000136986	DERL1	derlin 1 [Source:HGNC Symbol;Acc:HGNC:28454]	protein coding	2.89	-0.78	-3.67	+/NS	
ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	protein coding	3.20	-0.50	-3.70	+/NS	
ENSG00000164733	CTSB	cathepsin B [Source:HGNC Symbol;Acc:HGNC:2527]	protein coding	2.54	-1.19	-3.73	+/NS	
ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]	protein coding	2.81	-0.92	-3.74	+/NS	
ENSG00000106927	AMBP	alpha-1-microglobulin/bikunin precursor [Source:HGNC Symbol;Acc:HGNC:453]	protein coding	2.61	-1.13	-3.74	+/NS	
ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]	protein coding	3.04	-0.71	-3.75	+/NS	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	protein coding	5.24	1.49	-3.75	+/NS	
ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	protein coding	3.65	-0.11	-3.76	+/NS	
ENSG00000153132	CLGN	calmegin [Source:HGNC Symbol;Acc:HGNC:2060]	protein coding	3.80	0.03	-3.77	+/NS	
ENSG00000198763	MT-ND2	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 2 [Source:HGNC Symbol;Acc:HGNC:7456]	protein coding	3.65	-0.13	-3.78	+/NS	
ENSG00000135047	CTSL	cathepsin L [Source:HGNC Symbol;Acc:HGNC:2537]	protein coding	3.29	-0.51	-3.80	+/NS	
ENSG00000179218	CALR	calreticulin [Source:HGNC Symbol;Acc:HGNC:1455]	protein coding	3.73	-0.07	-3.80	+/NS	
ENSG0000005893	LAMP2	lysosomal associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:6501]	protein coding	2.79	-1.01	-3.80	+/NS	
ENSG00000182326	C1S	complement C1s [Source:HGNC Symbol;Acc:HGNC:1247]	protein coding	2.66	-1.14	-3.80	+/NS	
ENSG00000149131	SERPING1	serpin family G member 1 [Source:HGNC Symbol;Acc:HGNC:1228]	protein coding	3.13	-0.68	-3.82	+/NS	
ENSG00000135404	CD63	CD63 molecule [Source:HGNC Symbol;Acc:HGNC:1692]	protein coding	3.03	-0.79	-3.83	+/NS	
ENSG00000135677	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4422]	protein coding	4.06	0.23	-3.83	+/NS	
ENSG00000117480	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:HGNC:3553]	protein coding	5.10	1.27	-3.83	+/NS	
ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	protein coding	7.67	3.83	-3.84	+/NS	
ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]	protein coding	2.57	-1.28	-3.84	+/NS	
ENSG00000044574	HSPA5	heat shock protein family A (Hsp70) member 5 [Source:HGNC Symbol;Acc:HGNC:5238]	protein coding	3.83	-0.02	-3.84	+/NS	

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ENSG00000180210	F2	coagulation factor II, thrombin [Source:HGNC Symbol;Acc:HGNC:3535]	protein coding	2.03	-1.82	-3.85	+/NS	
ENSG00000085563	ABCB1	ATP binding cassette subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:40]	protein coding	3.49	-0.36	-3.85	+/NS	
ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	protein coding	2.77	-1.09	-3.86	+/NS	
ENSG00000198938	MT-CO3	mitochondrially encoded cytochrome c oxidase III [Source:HGNC Symbol;Acc:HGNC:7422]	protein coding	3.65	-0.22	-3.87	+/NS	
ENSG00000132031	MATN3	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]	protein coding	3.63	-0.27	-3.89	+/NS	
ENSG00000125304	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11865]	protein coding	2.49	-1.41	-3.91	+/NS	
ENSG00000110651	CD81	CD81 molecule [Source:HGNC Symbol;Acc:HGNC:1701]	protein coding	3.10	-0.85	-3.95	+/NS	
ENSG00000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	protein coding	2.61	-1.35	-3.96	+/NS	
ENSG00000103226	NOMO3	NODAL modulator 3 [Source:HGNC Symbol;Acc:HGNC:25242]	protein coding	3.25	-0.75	-4.00	+/NS	
ENSG00000184697	CLDN6	claudin 6 [Source:HGNC Symbol;Acc:HGNC:2048]	protein coding	5.42	1.40	-4.02	+/NS	
ENSG00000198804	MT-CO1	mitochondrially encoded cytochrome c oxidase I [Source:HGNC Symbol;Acc:HGNC:7419]	protein coding	3.47	-0.56	-4.03	+/NS	
ENSG00000185164	NOMO2	NODAL modulator 2 [Source:HGNC Symbol;Acc:HGNC:22652]	protein coding	3.20	-0.84	-4.04	+/NS	
ENSG00000090674	MCOLN1	mucolipin 1 [Source:HGNC Symbol;Acc:HGNC:13356]	protein coding	5.95	1.90	-4.05	+/NS	
ENSG00000198786	MT-ND5	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 5 [Source:HGNC Symbol;Acc:HGNC:7461]	protein coding	3.56	-0.50	-4.07	+/NS	
ENSG00000100600	LGMN	legumain [Source:HGNC Symbol;Acc:HGNC:9472]	protein coding	3.16	-0.92	-4.08	+/NS	
ENSG00000198840	MT-ND3	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3 [Source:HGNC Symbol;Acc:HGNC:7458]	protein coding	3.89	-0.25	-4.14	+/NS	
ENSG00000072682	P4HA2	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547]	protein coding	3.16	-1.05	-4.20	+/NS	
ENSG00000179406	LINC00174	long intergenic non-protein coding RNA 174 [Source:HGNC Symbol;Acc:HGNC:27788]	processed transcript	5.26	1.05	-4.21	+/NS	
ENSG00000198712	MT-CO2	mitochondrially encoded cytochrome c oxidase II [Source:HGNC Symbol;Acc:HGNC:7421]	protein coding	4.16	-0.10	-4.26	+/NS	
ENSG00000166598	HSP90B1	heat shock protein 90 beta family member 1 [Source:HGNC Symbol;Acc:HGNC:12028]	protein coding	4.18	-0.13	-4.31	+/NS	
ENSG00000079215	SLC1A3	solute carrier family 1 member 3 [Source:HGNC Symbol;Acc:HGNC:10941]	protein coding	5.99	1.67	-4.32	+/NS	
ENSG00000100242	SUN2	Sad1 and UNC84 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14210]	protein coding	3.87	-0.46	-4.33	+/NS	
ENSG00000225630	MTND2P28	MT-ND2 pseudogene 28 [Source:HGNC Symbol;Acc:HGNC:42129]	unprocessed pseudogene	4.87	0.51	-4.36	+/NS	

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ENSG00000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	[Source:HGNC Symbol;Acc:HGNC:17635]	Sym-	protein coding	5.58	1.19	-4.39	+/NS	
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	[Source:HGNC Symbol;Acc:HGNC:9344]	Sym-	protein coding	2.27	-2.17	-4.44	+/NS	
ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]	[Source:HGNC Symbol;Acc:HGNC:27662]	Sym-	processed transcript	3.22	-1.28	-4.49	+/NS	
ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	[Source:HGNC Symbol;Acc:HGNC:4054]		protein coding	5.70	1.20	-4.50	+/NS	
ENSG00000118520	ARG1	arginase 1 [Source:HGNC Symbol;Acc:HGNC:663]	[Source:HGNC Symbol;Acc:HGNC:663]		protein coding	-1.62	-6.13	-4.51	NS/-	
ENSG00000151846	PABPC3	poly(A) binding protein cytoplasmic 3 [Source:HGNC Symbol;Acc:HGNC:8556]	[Source:HGNC Symbol;Acc:HGNC:8556]		protein coding	3.41	-1.12	-4.54	+/NS	
ENSG00000167004	PDIA3	protein disulfide isomerase family A member 3 [Source:HGNC Symbol;Acc:HGNC:4606]	[Source:HGNC Symbol;Acc:HGNC:4606]		protein coding	3.85	-0.69	-4.54	+/NS	
ENSG00000155304	HSPA13	heat shock protein family A (Hsp70) member 13 [Source:HGNC Symbol;Acc:HGNC:11375]	[Source:HGNC Symbol;Acc:HGNC:11375]		protein coding	4.81	0.27	-4.55	+/NS	
ENSG00000198888	MT-ND1	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 1 [Source:HGNC Symbol;Acc:HGNC:7455]	[Source:HGNC Symbol;Acc:HGNC:7455]		protein coding	4.47	-0.12	-4.60	+/NS	
ENSG0000038002	AGA	aspartylglucosaminidase [Source:HGNC Symbol;Acc:HGNC:318]	[Source:HGNC Symbol;Acc:HGNC:318]	Sym-	protein coding	5.51	0.91	-4.60	+/NS	
ENSG00000198886	MT-ND4	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4 [Source:HGNC Symbol;Acc:HGNC:7459]	[Source:HGNC Symbol;Acc:HGNC:7459]		protein coding	3.67	-0.94	-4.61	+/NS	
ENSG00000156858	PRR14	proline rich 14 [Source:HGNC Symbol;Acc:HGNC:28458]	[Source:HGNC Symbol;Acc:HGNC:28458]	Sym-	protein coding	6.15	1.53	-4.62	+/NS	
ENSG00000234327					processed transcript	-1.12	-5.76	-4.64	NS/-	
ENSG00000207445	SNORD15B	small nucleolar RNA, C/D box 15B [Source:HGNC Symbol;Acc:HGNC:16649]	[Source:HGNC Symbol;Acc:HGNC:16649]		snoRNA	2.72	-1.94	-4.65	+/NS	
ENSG00000138463	DIRC2	disrupted in renal carcinoma 2 [Source:HGNC Symbol;Acc:HGNC:16628]	[Source:HGNC Symbol;Acc:HGNC:16628]		protein coding	4.27	-0.39	-4.66	+/NS	
ENSG00000142192	APP	amyloid beta precursor protein [Source:HGNC Symbol;Acc:HGNC:620]	[Source:HGNC Symbol;Acc:HGNC:620]		protein coding	3.72	-0.96	-4.68	+/NS	
ENSG00000197746	PSAP	prosapasin [Source:HGNC Symbol;Acc:HGNC:9498]	[Source:HGNC Symbol;Acc:HGNC:9498]		protein coding	3.90	-0.81	-4.71	+/NS	
ENSG00000134901	KDELC1	KDEL motif containing 1 [Source:HGNC Symbol;Acc:HGNC:19350]	[Source:HGNC Symbol;Acc:HGNC:19350]		protein coding	3.00	-1.80	-4.80	+/NS	
ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]	[Source:HGNC Symbol;Acc:HGNC:3542]	Sym-	protein coding	2.87	-2.01	-4.88	+/NS	
ENSG00000185339	TCN2	transcobalamin 2 [Source:HGNC Symbol;Acc:HGNC:11653]	[Source:HGNC Symbol;Acc:HGNC:11653]	Sym-	protein coding	5.44	0.55	-4.89	+/NS	
ENSG00000260916	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:HGNC:24227]	[Source:HGNC Symbol;Acc:HGNC:24227]	Sym-	protein coding	5.24	0.32	-4.93	+/NS	
ENSG00000267541	MTCO2P2	MT-CO2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:25354]	[Source:HGNC Symbol;Acc:HGNC:25354]	Sym-	processed pseudogene	4.91	-0.06	-4.97	+/NS	
ENSG00000268043	NBPF12	NBPF member 12 [Source:HGNC Symbol;Acc:HGNC:24297]	[Source:HGNC Symbol;Acc:HGNC:24297]	Sym-	protein coding	5.54	0.51	-5.03	+/NS	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RNA-Seq, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000271394			misc RNA	4.36	-0.70	-5.06	+/NS	
ENSG0000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	protein coding	4.67	-0.44	-5.11	+/NS	
ENSG0000198727	MT-CYB	mitochondrially encoded cytochrome b [Source:HGNC Symbol;Acc:HGNC:7427]	protein coding	4.91	-0.25	-5.16	+/NS	
ENSG0000222376	RN7SKP152	RNA, 7SK small nuclear pseudogene 152 [Source:HGNC Symbol;Acc:HGNC:45876]	misc RNA	5.24	0.01	-5.24	+/NS	
ENSG0000204592	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:HGNC:4962]	protein coding	7.94	2.66	-5.29	+/NS	
ENSG0000259706	HSP90B2P	heat shock protein 90 beta family member 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:12099]	processed pseudogene	4.15	-1.23	-5.38	+/NS	
ENSG0000198695	MT-ND6	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 6 [Source:HGNC Symbol;Acc:HGNC:7462]	protein coding	4.30	-1.26	-5.56	+/NS	
ENSG0000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]	protein coding	-0.64	-6.23	-5.59	NS/-	
ENSG0000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]	protein coding	7.77	2.14	-5.63	+/NS	
ENSG0000173480	ZNF417	zinc finger protein 417 [Source:HGNC Symbol;Acc:HGNC:20646]	protein coding	5.68	-0.08	-5.76	+/NS	
ENSG0000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	protein coding	7.53	1.76	-5.77	+/NS	
ENSG0000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]	protein coding	7.52	1.61	-5.92	+/NS	
ENSG0000115902	SLC1A4	solute carrier family 1 member 4 [Source:HGNC Symbol;Acc:HGNC:10942]	protein coding	8.39	2.17	-6.21	+/NS	
ENSG0000173456	RNF26	ring finger protein 26 [Source:HGNC Symbol;Acc:HGNC:14646]	protein coding	5.26	-1.03	-6.29	+/NS	
ENSG0000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	protein coding	6.01	-0.58	-6.58	+/NS	
ENSG0000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	9.14	2.38	-6.76	+/NS	
ENSG0000121064	SCPEP1	serine carboxypeptidase 1 [Source:HGNC Symbol;Acc:HGNC:29507]	protein coding	6.06	-0.94	-7.00	+/NS	
ENSG0000143753	DEGS1	delta 4-desaturase, sphingolipid 1 [Source:HGNC Symbol;Acc:HGNC:13709]	protein coding	5.45	-1.62	-7.07	+/NS	
ENSG0000165272	AQP3	aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:HGNC:636]	protein coding	5.98	-1.11	-7.08	+/NS	
ENSG0000165121		kinesin family member 27 (KIF27) pseudogene	transcribed unprocessed pseudogene	5.63			+/LE	
ENSG0000278701			misc RNA	-5.49			-/LE	
ENSG0000265641	MIR3929	microRNA 3929 [Source:HGNC Symbol;Acc:HGNC:38945]	miRNA	5.48			+/LE	
ENSG0000244722	RPSAP29	ribosomal protein SA pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:36680]	processed pseudogene	-5.37			-/LE	

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]	protein coding	5.35				+/LE
ENSG00000187942	LDLRAD2	low density lipoprotein receptor class A domain containing 2 [Source:HGNC Symbol;Acc:HGNC:32071]	protein coding	-5.27				-/LE
ENSG00000280123		TEC	TEC	-5.27				-/LE
ENSG00000169131	ZNF354A	zinc finger protein 354A [Source:HGNC Symbol;Acc:HGNC:11628]	protein coding	5.26				+/LE
ENSG00000226803	ZNF451-AS1	ZNF451 regulatory antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:53824]	antisense	-5.15				-/LE
ENSG00000230647		novel transcript	lincRNA	5.09				+/LE
ENSG00000252294	RNU6-589P	RNA, U6 small nuclear 589, pseudogene [Source:HGNC Symbol;Acc:HGNC:47552]	snRNA	5.05				+/LE
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-5.03				-/LE
ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]	misc RNA	4.53				+/LE
ENSG00000265735	RN7SL5P	RNA, 7SL, cytoplasmic 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:10040]	misc RNA	4.51				+/LE
ENSG00000279123		novel transcript	TEC	4.46				+/LE
ENSG00000252521	RNU5D-2P	RNA, U5D small nuclear 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:42534]	snRNA	3.67				+/LE
ENSG00000179111	HES7	hes family bHLH transcription factor 7 [Source:HGNC Symbol;Acc:HGNC:15977]	protein coding	-3.59				-/LE
ENSG00000213757		ribosomal protein S3A (RPS3A) pseudogene	processed pseudogene	-3.52				-/LE
ENSG0000010318	PHF7	PHD finger protein 7 [Source:HGNC Symbol;Acc:HGNC:18458]	protein coding	-3.39				-/LE
ENSG00000207083	RNU6-22P	RNA, U6 small nuclear 22, pseudogene [Source:HGNC Symbol;Acc:HGNC:34266]	snRNA	3.33				+/LE
ENSG00000146090	RASGEF1C	RasGEF domain family member 1C [Source:HGNC Symbol;Acc:HGNC:27400]	protein coding	3.33				+/LE
ENSG00000137880	GCHFR	GTP cyclohydrolase I feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]	protein coding	-3.11				-/LE
ENSG00000234797	RPS3AP6	ribosomal protein S3A pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:18630]	processed pseudogene	-2.78				-/LE
ENSG00000207624	MIR194-1	microRNA 194-1 [Source:HGNC Symbol;Acc:HGNC:31564]	miRNA	2.75				+/LE
ENSG00000263905	RN7SL555P	RNA, 7SL, cytoplasmic 555, pseudogene [Source:HGNC Symbol;Acc:HGNC:46571]	misc RNA	-2.73				-/LE
ENSG00000201901	RN7SKP48	RNA, 7SK small nuclear pseudogene 48 [Source:HGNC Symbol;Acc:HGNC:45772]	misc RNA	2.52				+/LE
ENSG00000202144			misc RNA	-2.36				-/LE
ENSG00000199469	RNU1-62P	RNA, U1 small nuclear 62, pseudogene [Source:HGNC Symbol;Acc:HGNC:48404]	snRNA	2.35				+/LE

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, cytosol)	Fold Change (RP, cytosol)	\log_2 Fold Change (RP, cytosol)	Translation Efficiency	Regulation
ENSG00000242615		ribosomal protein L17 (RPL17) pseudogene	transcribed processed pseudogene	2.35				+/LE
ENSG00000214485	RPL7P1	ribosomal protein L7 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10367]	processed pseudogene	-2.32				-/LE
ENSG00000201271	RNU1-112P	RNA, U1 small nuclear 112, pseudogene [Source:HGNC Symbol;Acc:HGNC:48454]	snRNA	2.17				+/LE
ENSG00000207870	MIR221	microRNA 221 [Source:HGNC Symbol;Acc:HGNC:31601]	miRNA	2.16				+/LE
ENSG00000207200	RNU6-45P	RNA, U6 small nuclear 45, pseudogene [Source:HGNC Symbol;Acc:HGNC:34289]	snRNA	2.12				+/LE
ENSG00000206936	RNU4-52P	RNA, U4 small nuclear 52, pseudogene [Source:HGNC Symbol;Acc:HGNC:46988]	snRNA	2.09				+/LE
ENSG00000252850	RNU1-117P	RNA, U1 small nuclear 117, pseudogene [Source:HGNC Symbol;Acc:HGNC:48459]	snRNA	2.07				+/LE
ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]	misc RNA	2.00				+/LE
ENSG00000151726	ACSL1	acyl-CoA synthetase long chain family member 1 [Source:HGNC Symbol;Acc:HGNC:3569]	protein coding	6.19				LE/+
ENSG00000183709	IFNL2	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	protein coding	5.99				LE/+
ENSG00000267478		nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) (NFKB2) pseudogene	processed pseudogene	5.87				LE/+
ENSG00000128284	APOL3	apolipoprotein L3 [Source:HGNC Symbol;Acc:HGNC:14868]	protein coding	5.78				LE/+
ENSG00000153253	SCN3A	sodium voltage-gated channel alpha subunit 3 [Source:HGNC Symbol;Acc:HGNC:10590]	protein coding	5.65				LE/+
ENSG00000169554	ZEB2	zinc finger E-box binding homeobox 2 [Source:HGNC Symbol;Acc:HGNC:14881]	protein coding	5.60				LE/+
ENSG00000200800	RNU1-130P	RNA, U1 small nuclear 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:48472]	snRNA	5.27				LE/+
ENSG00000136383	ALPK3	alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:17574]	protein coding	4.98				LE/+
ENSG00000206820	RNU1-138P	RNA, U1 small nuclear 138, pseudogene [Source:HGNC Symbol;Acc:HGNC:48480]	snRNA	4.75				LE/+
ENSG0000067057	PFKP	phosphofructokinase, platelet [Source:HGNC Symbol;Acc:HGNC:8878]	protein coding	3.87				LE/+
ENSG00000127561	SYNGR3	synaptogyrin 3 [Source:HGNC Symbol;Acc:HGNC:11501]	protein coding	3.17				LE/+

Table 77: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (cytosol, 40h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	snRNA	-2.47		-2.64		-0.17	-/NS
ENSG00000200436			misc RNA	-2.94		-3.42		-0.48	-/NS
ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene [Source:HGNC Symbol;Acc:HGNC:46748]	misc RNA	-6.86					-/LE
ENSG00000239899	RN7SL674P	RNA, 7SL, cytoplasmic 674, pseudogene [Source:HGNC Symbol;Acc:HGNC:46690]	misc RNA	-4.09					-/LE
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	misc RNA	-3.94					-/LE
ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	misc RNA	-3.51					-/LE
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-3.38					-/LE
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	snRNA	-3.23					-/LE
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	misc RNA	-2.58					-/LE
ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]	snRNA	-2.31					-/LE

Table 78: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (ER, 6h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000196482	ESRRG	estrogen related receptor gamma [Source:HGNC Symbol;Acc:HGNC:3474]	protein coding	-3.55		0.18		3.74	-/NS
ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	snRNA	-3.84		-0.63		3.22	-/NS
ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]	misc RNA	-2.23		0.53		2.76	-/NS
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	snRNA	-3.00		-3.44		-0.44	-/NS
ENSG00000200436			misc RNA	-2.61		-3.52		-0.92	-/NS
ENSG00000207204	RNU6-393P	RNA, U6 small nuclear 393, pseudogene [Source:HGNC Symbol;Acc:HGNC:47356]	snRNA	-2.50		-3.47		-0.97	-/NS
ENSG00000206822			misc RNA	-2.04		-3.24		-1.20	-/NS
ENSG00000278898	TEC		TEC	-6.44					-/LE
ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]	snRNA	-5.21					-/LE
ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]	misc RNA	-4.83					-/LE

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-4.01					-/LE
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	snRNA	-3.31					-/LE
ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]	snRNA	-3.21					-/LE
ENSG00000259697		novel transcript	lincRNA	-3.01					-/LE
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	misc RNA	-2.91					-/LE
ENSG00000202306			misc RNA	-2.78					-/LE
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	misc RNA	-2.73					-/LE
ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]	snRNA	-2.54					-/LE
ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene [Source:HGNC Symbol;Acc:HGNC:46470]	misc RNA	-2.49					-/LE
ENSG00000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]	misc RNA	-2.46					-/LE
ENSG00000265486	RN7SL518P	RNA, 7SL, cytoplasmic 518, pseudogene [Source:HGNC Symbol;Acc:HGNC:46534]	misc RNA	-2.44					-/LE
ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]	snRNA	-2.27					-/LE
ENSG00000243420	RN7SL734P	RNA, 7SL, cytoplasmic 734, pseudogene [Source:HGNC Symbol;Acc:HGNC:46750]	misc RNA	-2.25					-/LE
ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]	misc RNA	-2.18					-/LE

Table 79: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (ER, 12h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene 237 [Source:HGNC Symbol;Acc:HGNC:45961]	misc RNA	-4.42	1.96	6.38			-/NS
ENSG00000207340	RNVU1-1	RNA, variant U1 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10133]	snRNA	-3.55	0.96	4.51			-/NS
ENSG00000230779		ribosomal protein, large, P0 (RPLP0) pseudogene	processed pseudogene	2.06	5.64	3.58			NS/+
ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]	protein coding	0.07	3.60	3.52			NS/+
ENSG00000196482	ESRRG	estrogen related receptor gamma [Source:HGNC Symbol;Acc:HGNC:3474]	protein coding	-3.07	0.42	3.49			-/NS

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000197063	MAFG	MAF bZIP transcription factor G [Source:HGNC Symbol;Acc:HGNC:6781]	protein coding	0.78	3.86	3.08	NS/+	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	2.89	5.37	2.47	+/-	
ENSG00000240087	RPSAP12	ribosomal protein SA pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:6504]	processed pseudogene	-3.52	-1.29	2.24	-/NS	
ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]	protein coding	0.47	2.67	2.20	NS/+	
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	2.30	4.40	2.10	NS/+	
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	1.84	3.86	2.03	NS/+	
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	1.07	2.92	1.85	NS/+	
ENSG00000140406	TLNRD1	talin rod domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13519]	protein coding	1.45	3.14	1.69	NS/+	
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	snRNA	-2.15	-0.91	1.24	-/NS	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	4.83	6.05	1.23	+/-	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	1.93	3.03	1.11	NS/+	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	1.96	3.05	1.10	NS/+	
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	protein coding	2.97	4.03	1.06	+/-	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	3.63	4.64	1.01	+/-	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	2.77	3.72	0.95	+/-	
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	protein coding	8.28	9.11	0.83	+/-	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	1.65	2.43	0.78	NS/+	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	2.79	3.55	0.76	+/-	
ENSG00000253616		novel transcript	antisense	1.80	2.55	0.75	NS/+	
ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	1.59	2.32	0.73	NS/+	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	2.07	2.74	0.67	+/-	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	protein coding	1.69	2.25	0.56	NS/+	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	protein coding	2.79	3.15	0.37	+/-	

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ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.07	2.38	0.31	+/-		
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	2.90	3.13	0.23	NS/+		
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	2.50	2.73	0.23	+/NS		
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	3.06	3.22	0.17	+/-		
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	2.79	2.94	0.14	+/-		
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	2.11	2.20	0.10	+/-		
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	2.69	2.69	-0.01	+/-		
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	2.23	2.12	-0.12	+/-		
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	2.81	2.67	-0.14	+/-		
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	2.07	1.92	-0.15	+/NS		
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	2.61	2.40	-0.21	+/-		
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	2.76	2.52	-0.23	+/NS		
ENSG00000128965	CHAC1	ChAC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	3.85	3.60	-0.25	+/-		
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	2.99	2.73	-0.26	+/-		
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	2.16	1.84	-0.32	+/NS		
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	2.10	1.75	-0.35	+/NS		
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	2.55	2.17	-0.38	+/NS		
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	protein coding	2.77	2.38	-0.39	+/NS		
ENSG00000206822			misc RNA	-2.22	-2.63	-0.41	-/NS		
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	2.34	1.80	-0.54	+/NS		
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	5.75	5.17	-0.58	+/-		
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	3.04	2.44	-0.60	+/-		
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	2.17	1.56	-0.62	+/NS		

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	2.03	1.41	-0.62	+/NS	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	6.81	6.14	-0.66	+/+	
ENSG0000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	2.68	1.95	-0.73	+/NS	
ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	protein coding	3.11	2.37	-0.74	+/NS	
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	2.25	1.49	-0.76	+/NS	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	3.10	2.32	-0.78	+/+	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	3.76	2.86	-0.90	+/NS	
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	2.75	1.83	-0.92	+/NS	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	3.16	2.23	-0.93	+/NS	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	protein coding	5.84	4.79	-1.05	+/NS	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	5.07	4.01	-1.06	+/NS	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	5.92	4.82	-1.10	+/+	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	2.31	1.21	-1.10	+/NS	
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	protein coding	2.15	1.00	-1.15	+/NS	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	3.04	1.86	-1.17	+/NS	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	3.08	1.83	-1.25	+/NS	
ENSG00000116761	CTH	cystathione gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	2.70	1.41	-1.28	+/NS	
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	3.12	1.74	-1.38	+/NS	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	3.22	1.78	-1.44	+/NS	
ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	protein coding	2.38	0.89	-1.49	+/NS	
ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.03	0.51	-1.52	+/NS	
ENSG0000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	3.59	2.07	-1.53	+/NS	
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	6.41	4.80	-1.61	+/+	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	4.55	2.91	-1.64	+/+	
ENSG00000200436			misc RNA	-3.11	-5.07	-1.96	-/NS	

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ENSG00000128165	ADM2	adrenomedullin 2	[Source:HGNC Symbol;Acc:HGNC:28898]	Sym-	protein coding	4.65	2.66	-1.99	-1.99	+/NS	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:754]		transcribed un-processed pseudogene	4.71	2.70	-2.01	-2.01	+/NS	
ENSG00000172602	RND1	Rho family GTPase 1	[Source:HGNC Symbol;Acc:HGNC:18314]	Sym-	protein coding	3.64	1.51	-2.13	-2.13	+/NS	
ENSG0000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1	[Source:HGNC Symbol;Acc:HGNC:11134]		protein coding	2.13	-0.12	-2.25	-2.25	+/NS	
ENSG00000137628	DDX60	DExD/H-box helicase 60	[Source:HGNC Symbol;Acc:HGNC:25942]	Sym-	protein coding	3.09	0.74	-2.36	-2.36	+/NS	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10	[Source:HGNC Symbol;Acc:HGNC:10637]	Sym-	protein coding	5.60	3.06	-2.54	-2.54	+/+	
ENSG0000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing)	[Source:HGNC Symbol;Acc:HGNC:753]		protein coding	6.16	3.23	-2.93	-2.93	+/NS	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1	[Source:HGNC Symbol;Acc:HGNC:18873]	Sym-	protein coding	4.65	1.50	-3.16	-3.16	+/NS	
ENSG00000264618	RN7SL732P	RNA, 7SL, cytoplasmic 732, pseudogene	[Source:HGNC Symbol;Acc:HGNC:46748]		misc RNA	-6.48				-/LE	
ENSG0000075388	FGF4	fibroblast growth factor 4	[Source:HGNC Symbol;Acc:HGNC:3682]	Sym-	protein coding	5.87				+/LE	
ENSG00000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8	[Source:HGNC Symbol;Acc:HGNC:42626]	Sym-	misc RNA	-4.51				-/LE	
ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4	[Source:HGNC Symbol;Acc:HGNC:10128]	Sym-	snRNA	-4.32				-/LE	
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene	[Source:HGNC Symbol;Acc:HGNC:46489]	Sym-	misc RNA	-3.90				-/LE	
ENSG00000199562	RNU6-37P	RNA, U6 small nuclear 37, pseudogene	[Source:HGNC Symbol;Acc:HGNC:34281]	Sym-	snRNA	-3.49				-/LE	
ENSG00000207003	RNU6-611P	RNA, U6 small nuclear 611, pseudogene	[Source:HGNC Symbol;Acc:HGNC:47574]	Sym-	snRNA	-3.15				-/LE	
ENSG00000199223					misc RNA	-3.04				-/LE	
ENSG00000202306					misc RNA	-2.86				-/LE	
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene	[Source:HGNC Symbol;Acc:HGNC:34279]	Sym-	snRNA	-2.63				-/LE	
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene	[Source:HGNC Symbol;Acc:HGNC:46382]	Sym-	misc RNA	-2.55				-/LE	
ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109	[Source:HGNC Symbol;Acc:HGNC:45833]	Sym-	misc RNA	-2.48				-/LE	
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214	[Source:HGNC Symbol;Acc:HGNC:45938]	Sym-	misc RNA	-2.07				-/LE	

Table 80: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (ER, 24h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000201533	RN7SKP237	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45961]	misc RNA	-5.23	1.78	7.01	-/NS	
ENSG00000248643	RBM14-RBM4	RBM14-RBM4 readthrough [Source:HGNC Symbol;Acc:HGNC:38840]	protein coding	-6.58	0.00	6.58	-/NS	
ENSG00000248473	LINC01962	long intergenic non-protein coding RNA [Source:HGNC Symbol;Acc:HGNC:52787]	lincRNA	-6.04	0.52	6.56	-/NS	
ENSG00000240869	RN7SL128P	RNA, 7SL, cytoplasmic pseudogene [Source:HGNC Symbol;Acc:HGNC:46144]	misc RNA	-2.00	4.08	6.09	-/+	
ENSG00000225531		MMRP19 pseudogene	processed pseudogene	-5.86	-0.03	5.83	-/NS	
ENSG00000201758	RN7SKP55	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45779]	misc RNA	-3.51	2.27	5.78	-/NS	
ENSG00000130758	MAP3K10	mitogen-activated protein kinase kinase kinase 10 [Source:HGNC Symbol;Acc:HGNC:6849]	protein coding	1.16	6.57	5.41	NS/+	
ENSG00000250899		novel transcript	lincRNA	0.49	5.67	5.18	NS/+	
ENSG00000230733		novel transcript	lincRNA	-0.31	4.83	5.14	NS/+	
ENSG00000187017	ESPN	espin [Source:HGNC Symbol;Acc:HGNC:13281]	protein coding	-5.05	-0.08	4.97	-/NS	
ENSG00000198841	KTI12	KTI12 chromatin associated homolog [Source:HGNC Symbol;Acc:HGNC:25160]	protein coding	0.03	4.89	4.86	NS/+	
ENSG00000186212	SOWAHB	sosondowah ankyrin repeat domain family member B [Source:HGNC Symbol;Acc:HGNC:32958]	protein coding	1.13	5.97	4.84	NS/+	
ENSG00000201470	RNY4P7	RNA, Ro-associated Y4 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:34056]	misc RNA	-1.90	2.90	4.80	NS/+	
ENSG00000268205		novel transcript	lincRNA	0.96	5.67	4.72	NS/+	
ENSG00000169228	RAB24	RAB24, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9765]	protein coding	0.91	5.50	4.59	NS/+	
ENSG00000230779		ribosomal protein, large, P0 (RPLP0) pseudogene	processed pseudogene	1.82	6.37	4.55	NS/+	
ENSG00000270123	VTRNA2-1	vault RNA 2-1 [Source:HGNC Symbol;Acc:HGNC:37054]	vaultRNA	-3.25	1.20	4.45	-/NS	
ENSG00000200830	RN7SKP134	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45858]	misc RNA	-2.18	2.26	4.44	-/NS	
ENSG00000169926	KLF13	Kruppel like factor 13 [Source:HGNC Symbol;Acc:HGNC:13672]	protein coding	-0.62	3.69	4.31	NS/+	
ENSG00000111642	CHD4	chromodomain helicase DNA binding protein 4 [Source:HGNC Symbol;Acc:HGNC:1919]	protein coding	-0.95	3.26	4.21	NS/+	
ENSG00000197063	MAFG	MAF bZIP transcription factor G [Source:HGNC Symbol;Acc:HGNC:6781]	protein coding	1.24	5.42	4.18	NS/+	
ENSG00000264112		novel transcript	lincRNA	-2.80	1.30	4.10	-/NS	
ENSG00000242086	MUC20-OT1	MUC20 overlapping transcript [Source:HGNC Symbol;Acc:HGNC:53807]	lincRNA	-0.43	3.61	4.04	NS/+	
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	protein coding	3.50	7.50	3.99	+/+	
ENSG00000226312	CFLAR-AS1	CFLAR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:14437]	antisense	0.22	4.20	3.99	NS/+	
ENSG00000244389	RN7SL242P	RNA, 7SL, cytoplasmic pseudogene [Source:HGNC Symbol;Acc:HGNC:46258]	misc RNA	-1.22	2.76	3.99	NS/+	

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ENSG00000239883	PARGP1	poly(ADP-ribose) glycohydrolase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45008]	transcribed unprocessed pseudogene	0.86	4.80	3.94	NS/+	
ENSG00000201785	SNORD117	small nucleolar RNA, C/D box 117 [Source:HGNC Symbol;Acc:HGNC:32742]	snoRNA	-0.45	3.46	3.91	NS/+	
ENSG00000200379	RN7SKP45	RNA, 7SK small nuclear pseudogene 45 [Source:HGNC Symbol;Acc:HGNC:45769]	misc RNA	-2.56	1.30	3.86	-/NS	
ENSG00000142459	EVI5L	ecotropic viral integration site 5 like [Source:HGNC Symbol;Acc:HGNC:30464]	protein coding	0.29	4.13	3.84	NS/+	
ENSG00000231764	DLX6-AS1	DLX6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:37151]	antisense	-3.07	0.75	3.82	-/NS	
ENSG00000235408	SNORAT1B	small nucleolar RNA, H/ACA box 71B [Source:HGNC Symbol;Acc:HGNC:10233]	snoRNA	-0.76	3.04	3.80	NS/+	
ENSG00000102312	PORCN	porcupine O-acyltransferase [Source:HGNC Symbol;Acc:HGNC:17652]	protein coding	-5.62	-1.87	3.75	-/NS	
ENSG00000134240	HMGCS2	3-hydroxy-3-methylglutaryl-CoA synthase 2 [Source:HGNC Symbol;Acc:HGNC:5008]	protein coding	-5.89	-2.15	3.73	-/NS	
ENSG00000263934	SNORD3A	small nucleolar RNA, C/D box 3A [Source:HGNC Symbol;Acc:HGNC:33189]	snoRNA	-1.07	2.60	3.67	NS/+	
ENSG00000215424	MCM3AP-AS1	MCM3AP antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:16417]	antisense	-2.90	0.71	3.61	-/NS	
ENSG00000207207			misc RNA	-3.15	0.44	3.59	-/NS	
ENSG00000201684	RN7SKP239	RNA, 7SK small nuclear pseudogene 239 [Source:HGNC Symbol;Acc:HGNC:45963]	misc RNA	-2.26	1.30	3.56	-/NS	
ENSG00000113209	PCDHB5	protocadherin beta 5 [Source:HGNC Symbol;Acc:HGNC:8690]	protein coding	-5.83	-2.27	3.56	-/NS	
ENSG00000202395	RN7SKP1	RNA, 7SK small nuclear pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42619]	misc RNA	-2.73	0.77	3.50	-/NS	
ENSG00000239748	RN7SL795P	RNA, 7SL cytoplasmic 795, pseudogene [Source:HGNC Symbol;Acc:HGNC:46811]	misc RNA	-2.71	0.77	3.47	-/NS	
ENSG00000196123	KIAA0895L	KIAA0895 like [Source:HGNC Symbol;Acc:HGNC:34408]	protein coding	0.47	3.93	3.46	NS/+	
ENSG00000228218	ATF4P3	activating transcription factor 4 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:788]	processed pseudogene	-0.38	3.07	3.45	NS/+	
ENSG00000200354	SNORAT1D	small nucleolar RNA, H/ACA box 71D [Source:HGNC Symbol;Acc:HGNC:32657]	snoRNA	-0.78	2.67	3.45	NS/+	
ENSG00000145214	DGKQ	diacylglycerol kinase theta [Source:HGNC Symbol;Acc:HGNC:2856]	protein coding	0.86	4.30	3.44	NS/+	
ENSG00000207031	SNORD59A	small nucleolar RNA, C/D box 59A [Source:HGNC Symbol;Acc:HGNC:10210]	snoRNA	-0.85	2.56	3.41	NS/+	
ENSG00000239224	RN7SL546P	RNA, 7SL cytoplasmic 546, pseudogene [Source:HGNC Symbol;Acc:HGNC:46562]	misc RNA	-2.91	0.46	3.36	-/NS	
ENSG00000179532	DNHD1	dynein heavy chain domain 1 [Source:HGNC Symbol;Acc:HGNC:26532]	protein coding	0.37	3.72	3.36	NS/+	
ENSG00000116675	DNAJC6	DnaJ heat shock protein family (Hsp40) member C6 [Source:HGNC Symbol;Acc:HGNC:15469]	protein coding	-4.05	-0.74	3.31	-/NS	

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ENSG00000249859	PVT1	Pvt1 oncogene [Source:HGNC Symbol;Acc:HGNC:9709]	Sym-	lincRNA	1.84	5.12	3.28	NS/+		
ENSG00000129946	SHC2	SHC adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:29869]	Sym-	protein coding	2.31	5.58	3.27	+/-		
ENSG00000275023	MLLT6	MLLT6, PHD finger containing [Source:HGNC Symbol;Acc:HGNC:7138]	Sym-	protein coding	0.61	3.81	3.20	NS/+		
ENSG00000198496	NBR2	neighbor of BRCA1 lncRNA 2 [Source:HGNC Symbol;Acc:HGNC:20691]	Sym-	bidirectional promoter lncRNA	0.57	3.74	3.17	NS/+		
ENSG00000259614		tubulin, alpha 1a (TUBA1A) pseudogene		processed pseudogene	-3.70	-0.55	3.16	-/NS		
ENSG00000119703	ZC2HC1C	zinc finger C2HC-type containing 1C [Source:HGNC Symbol;Acc:HGNC:20354]	Sym-	protein coding	2.59	5.74	3.15	+/-		
ENSG00000138101	DTNB	dystrobrevin beta [Source:HGNC Symbol;Acc:HGNC:3058]	Sym-	protein coding	-2.59	0.55	3.14	-/NS		
ENSG00000105497	ZNF175	zinc finger protein 175 [Source:HGNC Symbol;Acc:HGNC:12964]	Sym-	protein coding	-0.64	2.48	3.12	NS/+		
ENSG00000225492	GBP1P1	guanylate binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39561]	Sym-	transcribed unprocessed pseudogene	3.52	6.60	3.08	+/-		
ENSG00000186376	ZNF75D	zinc finger protein 75D [Source:HGNC Symbol;Acc:HGNC:13145]	Sym-	protein coding	-0.26	2.80	3.07	NS/+		
ENSG00000199266	SNORA60	small nucleolar RNA, H/ACA box 60 [Source:HGNC Symbol;Acc:HGNC:32654]	Sym-	snoRNA	0.05	3.11	3.07	NS/+		
ENSG00000257335	MGAM	maltaise-glucosidase [Source:HGNC Symbol;Acc:HGNC:7043]	Sym-	protein coding	0.34	3.39	3.04	NS/+		
ENSG00000099625	CBARP	CACN subunit beta associated regulatory protein [Source:HGNC Symbol;Acc:HGNC:28617]	Sym-	protein coding	2.37	5.41	3.04	+/-		
ENSG00000131408	NR1H2	nuclear receptor subfamily 1 group H member 2 [Source:HGNC Symbol;Acc:HGNC:7965]	Sym-	protein coding	0.14	3.14	3.00	NS/+		
ENSG00000285943		novel protein		protein coding	0.11	3.04	2.93	NS/+		
ENSG00000071655	MBD3	methyl-CpG binding domain protein 3 [Source:HGNC Symbol;Acc:HGNC:6918]	Sym-	protein coding	-0.35	2.58	2.93	NS/+		
ENSG00000284976		novel RING finger protein		protein coding	-0.39	2.52	2.92	NS/+		
ENSG00000049249	TNFRSF9	TNF receptor superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:11924]	Sym-	protein coding	3.99	6.89	2.90	+/-		
ENSG00000235169	SMIM1	small integral membrane protein 1 (Vel blood group) [Source:HGNC Symbol;Acc:HGNC:44204]	Sym-	protein coding	-3.14	-0.24	2.90	-/NS		
ENSG00000200651				misc RNA	-2.98	-0.09	2.89	-/NS		
ENSG00000085644	ZNF213	zinc finger protein 213 [Source:HGNC Symbol;Acc:HGNC:13005]	Sym-	protein coding	0.24	3.12	2.88	NS/+		
ENSG00000132846	ZBED3	zinc finger BED-type containing 3 [Source:HGNC Symbol;Acc:HGNC:20711]	Sym-	protein coding	0.62	3.50	2.88	NS/+		
ENSG00000007545	CRAMP1	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]	Sym-	protein coding	-0.44	2.40	2.84	NS/+		
ENSG00000167566	NCKAP5L	NCK associated protein 5 like [Source:HGNC Symbol;Acc:HGNC:29321]	Sym-	protein coding	0.44	3.28	2.84	NS/+		

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ENSG00000162065	TBC1D24	TBC1 domain family member 24 [Source:HGNC Symbol;Acc:HGNC:29203]	protein coding	-0.47	2.36	2.83	NS/+	
ENSG00000235776		ribosomal protein L7a (RPL7A) pseudogene	processed pseudogene	-2.64	0.17	2.81	-/NS	
ENSG00000198198	SZT2	SZT2, KICSTOR complex subunit [Source:HGNC Symbol;Acc:HGNC:29040]	protein coding	1.86	4.64	2.78	NS/+	
ENSG00000197530	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:30577]	protein coding	0.34	3.10	2.75	NS/+	
ENSG00000220884	MESTP1	mesoderm specific transcript pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:29660]	processed pseudogene	-3.25	-0.51	2.74	-/NS	
ENSG00000254827	SLC22A18AS	solute carrier family 22 member 18 antisense [Source:HGNC Symbol;Acc:HGNC:10965]	protein coding	-3.16	-0.42	2.74	-/NS	
ENSG00000173114	LRRN3	leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:HGNC:17200]	protein coding	3.31	6.04	2.73	NS/+	
ENSG00000200243	RN7SKP79	RNA, 7SK small nuclear pseudogene 79 [Source:HGNC Symbol;Acc:HGNC:45803]	misc RNA	-2.29	0.45	2.73	-/NS	
ENSG00000126603	GLIS2	GLIS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:29450]	protein coding	-0.23	2.50	2.72	NS/+	
ENSG00000188873	RPL10AP2	ribosomal protein L10a pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:31081]	processed pseudogene	-2.90	-0.18	2.72	-/NS	
ENSG00000241553	ARPC4	actin related protein 2/3 complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:707]	protein coding	-0.61	2.11	2.72	NS/+	
ENSG00000126215	XRCC3	X-ray repair cross complementing 3 [Source:HGNC Symbol;Acc:HGNC:12830]	protein coding	0.33	3.02	2.69	NS/+	
ENSG00000187720	THSD4	thrombospondin type 1 domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25835]	protein coding	1.44	4.12	2.68	NS/+	
ENSG00000140548	ZNF710	zinc finger protein 710 [Source:HGNC Symbol;Acc:HGNC:25352]	protein coding	0.37	3.04	2.68	NS/+	
ENSG00000146676	PURB	purine rich element binding protein B [Source:HGNC Symbol;Acc:HGNC:9702]	protein coding	0.19	2.86	2.66	NS/+	
ENSG00000261635		tropomyosin 3 (TPM3) pseudogene	processed pseudogene	-3.28	-0.66	2.62	-/NS	
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	protein coding	4.15	6.77	2.62	+/+	
ENSG00000173391	OLR1	oxidized low density lipoprotein receptor 1 [Source:HGNC Symbol;Acc:HGNC:8133]	protein coding	0.49	3.10	2.61	NS/+	
ENSG00000105327	BBC3	BCL2 binding component 3 [Source:HGNC Symbol;Acc:HGNC:17868]	protein coding	4.70	7.28	2.59	+/+	
ENSG00000197483	ZNF628	zinc finger protein 628 [Source:HGNC Symbol;Acc:HGNC:28054]	protein coding	1.64	4.22	2.58	NS/+	
ENSG00000241360	PDXP	pyridoxal phosphatase [Source:HGNC Symbol;Acc:HGNC:30259]	protein coding	-2.40	0.17	2.57	-/NS	
ENSG00000207523	SNORA66	small nucleolar RNA, H/ACA box 66 [Source:HGNC Symbol;Acc:HGNC:10223]	snoRNA	-0.17	2.38	2.55	NS/+	
ENSG00000181588	MEX3D	mex-3 RNA binding family member D [Source:HGNC Symbol;Acc:HGNC:16734]	protein coding	-0.29	2.24	2.53	NS/+	

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ENSG00000110697	PITPNM1	phosphatidylinositol transfer protein membrane associated 1 [Source:HGNC Symbol;Acc:HGNC:9003]	protein coding	0.28	2.79	2.51	NS/+	
ENSG00000234337		tropomyosin 1 (alpha) (TPM1) pseudogene	processed pseudogene	-2.69	-0.18	2.51	-/NS	
ENSG00000104880	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]	protein coding	2.07	4.57	2.51	+/+	
ENSG00000213918	DNASE1	deoxyribonuclease 1 [Source:HGNC Symbol;Acc:HGNC:2956]	protein coding	0.24	2.73	2.49	NS/+	
ENSG00000139800	ZIC5	Zic family member 5 [Source:HGNC Symbol;Acc:HGNC:20322]	protein coding	-0.15	2.32	2.48	NS/+	
ENSG00000184557	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:HGNC:19391]	protein coding	4.76	7.24	2.47	+/+	
ENSG00000256937	KRT17P8	keratin 17 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:50726]	processed pseudogene	-2.84	-0.37	2.47	-/NS	
ENSG00000099949	LZTR1	leucine zipper like transcription regulator 1 [Source:HGNC Symbol;Acc:HGNC:6742]	protein coding	0.15	2.61	2.46	NS/+	
ENSG00000202357			misc RNA	-2.45	0.00	2.45	-/NS	
ENSG00000100014	SPECC1L	sperm antigen with calponin homology and coiled-coil domains 1 like [Source:HGNC Symbol;Acc:HGNC:29022]	protein coding	0.78	3.20	2.42	NS/+	
ENSG00000197279	ZNF165	zinc finger protein 165 [Source:HGNC Symbol;Acc:HGNC:12953]	protein coding	2.22	4.64	2.42	+/+	
ENSG00000140406	TLNRD1	talin rod domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13519]	protein coding	1.15	3.57	2.41	NS/+	
ENSG00000119729	RHOQ	ras homolog family member Q [Source:HGNC Symbol;Acc:HGNC:17736]	protein coding	0.93	3.32	2.38	NS/+	
ENSG00000199218	RN7SKP184	RNA, 7SK small nuclear pseudogene 184 [Source:HGNC Symbol;Acc:HGNC:45908]	misc RNA	-2.61	-0.26	2.35	-/NS	
ENSG00000100241	SBF1	SET binding factor 1 [Source:HGNC Symbol;Acc:HGNC:10542]	protein coding	0.01	2.36	2.35	NS/+	
ENSG00000175643	RMI2	RecQ mediated genome instability 2 [Source:HGNC Symbol;Acc:HGNC:28349]	protein coding	-3.02	-0.67	2.34	-/NS	
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	protein coding	2.23	4.57	2.33	+/+	
ENSG00000177595	PIDD1	p53-induced death domain protein 1 [Source:HGNC Symbol;Acc:HGNC:16491]	protein coding	0.90	3.23	2.33	NS/+	
ENSG00000222974	RN7SKP228	RNA, 7SK small nuclear pseudogene 228 [Source:HGNC Symbol;Acc:HGNC:45952]	misc RNA	-2.03	0.26	2.30	-/NS	
ENSG00000099814	CEP170B	centrosomal protein 170B [Source:HGNC Symbol;Acc:HGNC:20362]	protein coding	0.60	2.89	2.29	NS/+	
ENSG00000103326	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182]	protein coding	0.21	2.50	2.29	NS/+	
ENSG00000215908	CROCCP2	ciliary rootlet coiled-coil, rootletin pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:28170]	transcribed unprocessed pseudogene	1.46	3.75	2.29	NS/+	
ENSG00000197774	EME2	essential meiotic structure-specific endonuclease subunit 2 [Source:HGNC Symbol;Acc:HGNC:27289]	protein coding	1.06	3.35	2.28	NS/+	

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ENSG00000006432	MAP3K9	mitogen-activated protein kinase kinase kinase 9 [Source:HGNC Symbol;Acc:HGNC:6861]	protein coding	1.48	3.76	2.28	NS/+	
ENSG00000197283	SYNGAP1	synaptic Ras GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:11497]	protein coding	2.70	4.97	2.27	+/-	
ENSG00000207280	SNORD20	small nucleolar RNA, C/D box 20 [Source:HGNC Symbol;Acc:HGNC:10143]	snoRNA	-0.22	2.04	2.26	NS/+	
ENSG00000088899	LZTS3	leucine zipper tumor suppressor family member 3 [Source:HGNC Symbol;Acc:HGNC:30139]	protein coding	0.78	3.04	2.26	NS/+	
ENSG00000185800	DMWD	DM1 locus, WD repeat containing [Source:HGNC Symbol;Acc:HGNC:2936]	protein coding	0.00	2.26	2.25	NS/+	
ENSG00000187605	TET3	tet methylcytosine dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:28313]	protein coding	1.27	3.51	2.24	NS/+	
ENSG00000101493	ZNF516	zinc finger protein 516 [Source:HGNC Symbol;Acc:HGNC:28990]	protein coding	-0.10	2.14	2.24	NS/+	
ENSG00000234272	RPL30P2	ribosomal protein L30 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:35642]	processed pseudogene	-2.25	-0.01	2.24	-/NS	
ENSG00000238227	TMEM250	transmembrane protein 250 [Source:HGNC Symbol;Acc:HGNC:31009]	protein coding	0.14	2.36	2.22	NS/+	
ENSG00000157933	SKI	SKI proto-oncogene [Source:HGNC Symbol;Acc:HGNC:10896]	protein coding	0.04	2.24	2.20	NS/+	
ENSG00000140044	JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:HGNC:17546]	protein coding	1.89	4.09	2.20	NS/+	
ENSG00000131470	PSMC3IP	PSMC3 interacting protein [Source:HGNC Symbol;Acc:HGNC:17928]	protein coding	0.60	2.79	2.19	NS/+	
ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	protein coding	-4.39	-2.19	2.19	-/NS	
ENSG00000142330	CAPN10	calpain 10 [Source:HGNC Symbol;Acc:HGNC:1477]	protein coding	1.34	3.53	2.19	NS/+	
ENSG00000224094	RPS24P8	ribosomal protein S24 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:37016]	processed pseudogene	-2.87	-0.69	2.19	-/NS	
ENSG00000204682	CASC10	cancer susceptibility 10 [Source:HGNC Symbol;Acc:HGNC:31448]	protein coding	-3.02	-0.84	2.18	-/NS	
ENSG00000175984	DENND2C	DENN domain containing 2C [Source:HGNC Symbol;Acc:HGNC:24748]	protein coding	-2.09	0.07	2.16	-/NS	
ENSG00000230897	RPS18P12	ribosomal protein S18 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:35967]	processed pseudogene	-2.19	-0.04	2.16	-/NS	
ENSG00000144852	NR1I2	nuclear receptor subfamily 1 group I member 2 [Source:HGNC Symbol;Acc:HGNC:7968]	protein coding	-2.15	0.00	2.15	-/NS	
ENSG00000130429	ARPC1B	actin related protein 2/3 complex subunit 1B [Source:HGNC Symbol;Acc:HGNC:704]	protein coding	-2.73	-0.58	2.15	-/NS	
ENSG00000234743	EIF5AP4	eukaryotic translation initiation factor 5A pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:31442]	processed pseudogene	-3.00	-0.85	2.15	-/NS	
ENSG00000274211	SOCS7	suppressor of cytokine signaling 7 [Source:HGNC Symbol;Acc:HGNC:29846]	protein coding	0.26	2.40	2.14	NS/+	
ENSG00000124222	STX16	syntaxin 16 [Source:HGNC Symbol;Acc:HGNC:11431]	protein coding	0.99	3.13	2.14	NS/+	
ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]	protein coding	1.06	3.19	2.13	NS/+	

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ENSG00000165471	MBL2	mannose binding lectin 2 [Source:HGNC Symbol;Acc:HGNC:6922]	protein coding	-3.74	-1.62	2.12	-/NS	
ENSG00000144893	MED12L	mediator complex subunit 12 like [Source:HGNC Symbol;Acc:HGNC:16050]	protein coding	1.70	3.82	2.12	NS/+	
ENSG00000141542	RAB40B	RAB40B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:18284]	protein coding	-2.64	-0.54	2.11	-/NS	
ENSG00000161996	WDR90	WD repeat domain 90 [Source:HGNC Symbol;Acc:HGNC:26960]	protein coding	1.47	3.58	2.10	NS/+	
ENSG00000214362	RPS3AP36	ribosomal protein S3a pseudogene 36 [Source:HGNC Symbol;Acc:HGNC:35596]	processed pseudogene	-2.68	-0.58	2.10	-/NS	
ENSG00000154556	SORBS2	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24098]	protein coding	-3.29	-1.19	2.10	-/NS	
ENSG00000179674	ARL14	ADP ribosylation factor like GTPase 14 [Source:HGNC Symbol;Acc:HGNC:22974]	protein coding	1.87	3.96	2.09	NS/+	
ENSG00000223959	AFG3L1P	AFG3 like matrix AAA peptidase subunit 1, pseudogene [Source:HGNC Symbol;Acc:HGNC:314]	transcribed unitary pseudogene	0.24	2.31	2.08	NS/+	
ENSG00000247796			antisense	-2.46	-0.39	2.07	-/NS	
ENSG00000156030	ELMSAN1	ELM2 and Myb/SANT domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19853]	protein coding	1.89	3.97	2.07	NS/+	
ENSG00000197608	ZNF841	zinc finger protein 841 [Source:HGNC Symbol;Acc:HGNC:27611]	protein coding	0.64	2.70	2.05	NS/+	
ENSG00000134326	CMPK2	cytidine/uridine monophosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:27015]	protein coding	3.65	5.70	2.05	NS/+	
ENSG00000243495	GMFBP1	glia maturation factor beta pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:38654]	processed pseudogene	-3.02	-0.97	2.04	-/NS	
ENSG00000136155	SCEL	scielin [Source:HGNC Symbol;Acc:HGNC:10573]	protein coding	0.81	2.85	2.04	NS/+	
ENSG00000102125	TAZ	tafazzin [Source:HGNC Symbol;Acc:HGNC:11577]	protein coding	-2.04	-0.01	2.03	-/NS	
ENSG00000142279	WTIP	WT1 interacting protein [Source:HGNC Symbol;Acc:HGNC:20964]	protein coding	0.84	2.85	2.01	NS/+	
ENSG00000261227		novel transcript	lincRNA	2.83	4.83	2.01	+/-	
ENSG00000189298	ZKSCAN3	zinc finger with KRAB and SCAN domains 3 [Source:HGNC Symbol;Acc:HGNC:13853]	protein coding	-2.36	-0.35	2.01	-/NS	
ENSG00000125503	PPP1R12C	protein phosphatase 1 regulatory subunit 12C [Source:HGNC Symbol;Acc:HGNC:14947]	protein coding	0.85	2.85	2.01	NS/+	
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29307]	protein coding	2.39	4.39	2.00	+/-	
ENSG00000183298	RPSAP19	ribosomal protein SA pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:36508]	processed pseudogene	-2.23	-0.23	2.00	-/NS	
ENSG00000166012	TAF1D	TATA-box binding protein associated factor, RNA polymerase I subunit D [Source:HGNC Symbol;Acc:HGNC:28759]	protein coding	0.51	2.51	1.99	NS/+	
ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]	protein coding	1.32	3.31	1.99	NS/+	
ENSG00000066697	MSANTD3	Myb/SANT DNA binding domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23370]	protein coding	0.93	2.90	1.97	NS/+	

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ENSG00000131845	ZNF304	zinc finger protein 304 [Source:HGNC Symbol;Acc:HGNC:13505]	protein coding	0.56	2.53	1.97	NS/+		
ENSG00000158186	MRAS	muscle RAS oncogene homolog [Source:HGNC Symbol;Acc:HGNC:7227]	protein coding	0.97	2.93	1.96	NS/+		
ENSG00000231789	PIK3CD-AS2	PIK3CD antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:51334]	antisense	-2.31	-0.36	1.96	-/NS		
ENSG00000106665	CLIP2	CAP-Gly domain containing linker protein 2 [Source:HGNC Symbol;Acc:HGNC:2586]	protein coding	0.38	2.33	1.95	NS/+		
ENSG00000112787	FBRSL1	fibrosin like 1 [Source:HGNC Symbol;Acc:HGNC:29308]	protein coding	0.39	2.34	1.95	NS/+		
ENSG00000189157	FAM47E	family with sequence similarity 47 member E [Source:HGNC Symbol;Acc:HGNC:34343]	protein coding	2.05	3.99	1.94	+/*		
ENSG00000131797	CLUHP3	clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447]	transcribed unprocessed pseudogene	2.21	4.15	1.94	+/*		
ENSG00000185730	ZNF696	zinc finger protein 696 [Source:HGNC Symbol;Acc:HGNC:25872]	protein coding	1.28	3.20	1.92	NS/+		
ENSG00000163501	IHH	indian hedgehog [Source:HGNC Symbol;Acc:HGNC:5956]	protein coding	-3.40	-1.49	1.91	-/NS		
ENSG00000065057	NTHL1	nth like DNA glycosylase 1 [Source:HGNC Symbol;Acc:HGNC:8028]	protein coding	-2.11	-0.20	1.91	-/NS		
ENSG00000115252	PDE1A	phosphodiesterase 1A [Source:HGNC Symbol;Acc:HGNC:8774]	protein coding	-2.16	-0.26	1.90	-/NS		
ENSG00000148219	ASTN2	astrotactin 2 [Source:HGNC Symbol;Acc:HGNC:17021]	protein coding	-3.25	-1.37	1.88	-/NS		
ENSG00000188596	CFAP54	cilia and flagella associated protein 54 [Source:HGNC Symbol;Acc:HGNC:26456]	protein coding	3.50	5.37	1.87	+/*		
ENSG00000251411		actin related protein 2/3 complex, subunit 1A, 41kDa (ARPC1A) pseudogene	processed pseudogene	-3.73	-1.86	1.87	-/NS		
ENSG00000102781	KATNAL1	katanin catalytic subunit A1 like 1 [Source:HGNC Symbol;Acc:HGNC:28361]	protein coding	-2.23	-0.36	1.87	-/NS		
ENSG00000171130	ATP6V0E2	ATPase H+ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:HGNC:21723]	protein coding	-3.02	-1.16	1.86	-/NS		
ENSG00000207204	RNU6-393P	RNA, U6 small nuclear 39S, pseudogene [Source:HGNC Symbol;Acc:HGNC:47356]	snRNA	-2.94	-1.10	1.85	-/NS		
ENSG00000162714	ZNF496	zinc finger protein 496 [Source:HGNC Symbol;Acc:HGNC:23713]	protein coding	0.50	2.35	1.85	NS/+		
ENSG00000064932	SBNO2	strawberry notch homolog 2 [Source:HGNC Symbol;Acc:HGNC:29158]	protein coding	1.87	3.72	1.84	NS/+		
ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]	protein coding	3.33	5.17	1.84	+/*		
ENSG00000168096	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29422]	protein coding	0.46	2.30	1.84	NS/+		
ENSG00000201201	RN7SKP118	RNA, 7SK small nuclear pseudogene 118 [Source:HGNC Symbol;Acc:HGNC:45842]	misc RNA	-2.36	-0.53	1.84	-/NS		
ENSG00000128272	ATF4	activating transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:786]	protein coding	0.56	2.39	1.84	NS/+		

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ENSG00000118733	OLFM3	olfactomedin 3 [Source:HGNC Symbol;Acc:HGNC:17990]	Sym-	protein coding	-2.45	-0.62	1.83	-/NS	-/NS		
ENSG00000199691	RN7SKP173	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45897]	173	misc RNA	-2.11	-0.28	1.83	-/NS	-/NS		
ENSG00000099812	MISP	mitotic spindle positioning [Source:HGNC Symbol;Acc:HGNC:27000]	Sym-	protein coding	2.54	4.36	1.83	+/-	+/-		
ENSG00000199883	RN7SKP90	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45814]	90	misc RNA	-2.37	-0.55	1.82	-/NS	-/NS		
ENSG00000075399	VPS9D1	VPS9 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13526]	Sym-	protein coding	0.64	2.45	1.82	NS/+	NS/+		
ENSG00000233593	LINC02609	long intergenic non-protein coding RNA [Source:HGNC Symbol;Acc:HGNC:27140]	2609	processed transcript	-2.37	-0.56	1.81	-/NS	-/NS		
ENSG00000217241	CBX3P9	chromobox 3 pseudogene [Source:HGNC Symbol;Acc:HGNC:42881]	9	processed pseudogene	-3.05	-1.25	1.81	-/NS	-/NS		
ENSG00000137496	IL18BP	interleukin 18 binding protein [Source:HGNC Symbol;Acc:HGNC:5987]	Sym-	protein coding	1.00	2.81	1.81	NS/+	NS/+		
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	Sym-	protein coding	10.58	12.39	1.81	+/-	+/-		
ENSG00000163795	ZNF513	zinc finger protein 513 [Source:HGNC Symbol;Acc:HGNC:26498]	Sym-	protein coding	0.84	2.64	1.80	NS/+	NS/+		
ENSG00000076067	RBMS2	RNA binding motif single stranded interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:9909]	Sym-	protein coding	0.24	2.04	1.80	NS/+	NS/+		
ENSG00000186076		phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene	Sym-	processed pseudogene	-2.77	-0.97	1.80	-/NS	-/NS		
ENSG00000133983	COX16	cytochrome c oxidase assembly factor COX16 [Source:HGNC Symbol;Acc:HGNC:20213]	COX16	protein coding	-2.78	-0.99	1.79	-/NS	-/NS		
ENSG00000135736	CCDC102A	coiled-coil domain containing 102A [Source:HGNC Symbol;Acc:HGNC:28097]	Sym-	protein coding	0.63	2.41	1.77	NS/+	NS/+		
ENSG00000237988	OR2I1P	olfactory receptor family 2 subfamily 1 member 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:8258]	Sym-	protein coding	3.05	4.82	1.77	+/-	+/-		
ENSG00000244067	GSTA2	glutathione S-transferase alpha 2 [Source:HGNC Symbol;Acc:HGNC:4627]	Sym-	protein coding	-4.09	-2.32	1.77	-/NS	-/NS		
ENSG00000196756	SNHG17	small nucleolar RNA host gene 17 [Source:HGNC Symbol;Acc:HGNC:48600]	Sym-	processed transcript	1.21	2.97	1.76	NS/+	NS/+		
ENSG00000185347	TEDC1	tubulin epsilon and delta complex 1 [Source:HGNC Symbol;Acc:HGNC:20127]	Sym-	protein coding	0.68	2.45	1.76	NS/+	NS/+		
ENSG00000135604	STX11	syntaxin 11 [Source:HGNC Symbol;Acc:HGNC:11429]	Sym-	protein coding	2.66	4.43	1.76	+/-	+/-		
ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	697	protein coding	2.75	4.51	1.76	+/-	+/-		
ENSG00000142409	ZNF787	zinc finger protein 787 [Source:HGNC Symbol;Acc:HGNC:26998]	Sym-	protein coding	0.65	2.40	1.75	NS/+	NS/+		
ENSG00000262519	TXNP4	thioredoxin pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:49484]	Sym-	processed pseudogene	-2.06	-0.31	1.75	-/NS	-/NS		
ENSG00000105499	PLA2G4C	phospholipase A2 group IVC [Source:HGNC Symbol;Acc:HGNC:9037]	Sym-	protein coding	2.86	4.60	1.74	+/-	+/-		

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ENSG00000196700	ZNF512B	zinc finger protein 512B [Source:HGNC Symbol;Acc:HGNC:29212]	protein coding	0.53	2.26	1.73	NS/+	
ENSG00000139718	SETD1B	SET domain containing 1B [Source:HGNC Symbol;Acc:HGNC:29187]	protein coding	0.31	2.04	1.73	NS/+	
ENSG00000102445	RUBCNL	RUN and cysteine rich domain containing beclin 1 interacting protein like [Source:HGNC Symbol;Acc:HGNC:20420]	protein coding	1.93	3.65	1.72	NS/+	
ENSG00000167355	OR51B5	olfactory receptor family 51 subfamily B member 5 [Source:HGNC Symbol;Acc:HGNC:19599]	protein coding	-5.00	-3.28	1.72	-/-	
ENSG00000223529	EEF1A1P8	eukaryotic translation elongation factor 1 alpha 1 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:3203]	processed pseudogene	-3.27	-1.56	1.70	-/NS	
ENSG00000171161	ZNF672	zinc finger protein 672 [Source:HGNC Symbol;Acc:HGNC:26179]	protein coding	0.60	2.30	1.70	NS/+	
ENSG00000100441	KHYN	KH and NYN domain containing [Source:HGNC Symbol;Acc:HGNC:20166]	protein coding	0.86	2.56	1.70	NS/+	
ENSG00000181722	ZBTB20	zinc finger and BTB domain containing 20 [Source:HGNC Symbol;Acc:HGNC:13503]	protein coding	0.60	2.30	1.70	NS/+	
ENSG00000232368	FTLP2	ferritin light chain pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:4001]	processed pseudogene	-2.22	-0.53	1.69	-/NS	
ENSG00000177082	WDR73	WD repeat domain 73 [Source:HGNC Symbol;Acc:HGNC:25928]	protein coding	0.63	2.31	1.68	NS/+	
ENSG0000061273	HDAC7	histone deacetylase 7 [Source:HGNC Symbol;Acc:HGNC:14067]	protein coding	1.13	2.79	1.66	NS/+	
ENSG00000175066	GK5	glycerol kinase 5 [Source:HGNC Symbol;Acc:HGNC:28635]	protein coding	-2.07	-0.40	1.66	-/NS	
ENSG00000112096	SOD2	superoxide dismutase 2 [Source:HGNC Symbol;Acc:HGNC:11180]	protein coding	1.62	3.28	1.66	NS/+	
ENSG00000204946	ZNF783	zinc finger family member 783 [Source:HGNC Symbol;Acc:HGNC:27222]	protein coding	0.77	2.43	1.66	NS/+	
ENSG00000256043	CTSO	cathepsin O [Source:HGNC Symbol;Acc:HGNC:2542]	protein coding	-2.60	-0.94	1.65	-/NS	
ENSG00000123095	BHLHE41	basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]	protein coding	2.11	3.76	1.65	+/+	
ENSG00000126461	SCAF1	SR-related CTD associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30403]	protein coding	0.70	2.35	1.65	NS/+	
ENSG00000156860	FBR5	fibrosin [Source:HGNC Symbol;Acc:HGNC:20442]	protein coding	1.17	2.82	1.64	NS/+	
ENSG0000047644	WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:HGNC:29237]	protein coding	1.59	3.23	1.64	NS/+	
ENSG00000198369	SPRED2	sprouty related EVH1 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17722]	protein coding	0.70	2.33	1.63	NS/+	
ENSG00000146112	PPP1R18	protein phosphatase 1 regulatory subunit 18 [Source:HGNC Symbol;Acc:HGNC:29413]	protein coding	0.83	2.45	1.62	NS/+	
ENSG00000130940	CASZ1	castor zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:26002]	protein coding	0.44	2.06	1.62	NS/+	
ENSG00000253223		PRPF3 pre-mRNA processing factor 3 homolog (S. cerevisiae) (PRPF3) pseudogene	processed pseudogene	0.69	2.31	1.62	NS/+	

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ENSG00000169248	CXCL11	C-X-C motif chemokine ligand 11 [Source:HGNC Symbol;Acc:HGNC:10638]	protein coding	3.34	4.95	1.62	+/+	
ENSG00000214121	PRDX1P1	peroxiredoxin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:11711]	processed pseudogene	-2.67	-1.07	1.60	-/NS	
ENSG00000189362	NEMP2	nuclear envelope integral membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:33700]	protein coding	-3.20	-1.62	1.58	-/NS	
ENSG00000129911	KLF16	Kruppel like factor 16 [Source:HGNC Symbol;Acc:HGNC:16857]	protein coding	0.67	2.25	1.58	NS/+	
ENSG00000075426	FOSL2	FOS like 2, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3798]	protein coding	3.36	4.94	1.57	+/+	
ENSG00000137970	RPL7P9	ribosomal protein L7 pseudogene 9 [Source:HGNC Symbol;Acc:HGNC:37028]	processed pseudogene	-2.09	-0.52	1.57	-/NS	
ENSG00000123358	NR4A1	nuclear receptor subfamily 4 group A member 1 [Source:HGNC Symbol;Acc:HGNC:7980]	protein coding	1.35	2.92	1.57	NS/+	
ENSG00000204387	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:HGNC:19078]	protein coding	1.27	2.83	1.56	NS/+	
ENSG00000175329	ISX	intestine specific homeobox [Source:HGNC Symbol;Acc:HGNC:28084]	protein coding	-2.72	-1.16	1.56	-/NS	
ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	protein coding	2.94	4.50	1.56	+/+	
ENSG00000185158	LRRC37B	leucine rich repeat containing 37B [Source:HGNC Symbol;Acc:HGNC:29070]	protein coding	1.88	3.43	1.56	NS/+	
ENSG0000070778	PTPN21	protein tyrosine phosphatase, non-receptor type 21 [Source:HGNC Symbol;Acc:HGNC:9651]	protein coding	0.75	2.31	1.56	NS/+	
ENSG00000178951	ZBTB7A	zinc finger and BTB domain containing 7A [Source:HGNC Symbol;Acc:HGNC:18078]	protein coding	0.45	2.00	1.55	NS/+	
ENSG00000108557	RAI1	retinoic acid induced 1 [Source:HGNC Symbol;Acc:HGNC:9834]	protein coding	0.65	2.20	1.55	NS/+	
ENSG0000079689	SCGN	secretagogin, EF-hand calcium binding protein [Source:HGNC Symbol;Acc:HGNC:16941]	protein coding	-2.47	-0.92	1.55	-/NS	
ENSG00000173898	SPTBN2	spectrin beta, non-erythrocytic 2 [Source:HGNC Symbol;Acc:HGNC:11276]	protein coding	0.61	2.16	1.54	NS/+	
ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	protein coding	3.42	4.96	1.54	+/+	
ENSG00000172432	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4670]	protein coding	3.19	4.73	1.54	+/+	
ENSG00000131323	TRAF3	TNF receptor associated factor 3 [Source:HGNC Symbol;Acc:HGNC:12033]	protein coding	1.04	2.57	1.52	NS/+	
ENSG00000183807	FAM162B	family with sequence similarity 162 member B [Source:HGNC Symbol;Acc:HGNC:21549]	protein coding	-2.77	-1.24	1.52	-/NS	
ENSG00000222389	RNU2-28P	RNA, U2 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:48521]	snRNA	-2.88	-1.36	1.52	-/NS	
ENSG00000134184	GSTM1	glutathione S-transferase mu 1 [Source:HGNC Symbol;Acc:HGNC:4632]	protein coding	-2.88	-1.37	1.51	-/NS	
ENSG00000133739	LRRCC1	leucine rich repeat and coiled-coil centrosomal protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]	protein coding	-2.49	-0.98	1.51	-/NS	

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ENSG00000135631	RAB11FIP5	RAB11 family interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:24845]	protein coding	1.01	2.53	1.51	NS/+	
ENSG00000110237	ARHGEF17	Rho guanine nucleotide exchange factor 17 [Source:HGNC Symbol;Acc:HGNC:21726]	protein coding	1.52	3.03	1.51	NS/+	
ENSG00000107249	GLIS3	GLIS family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:28510]	protein coding	0.54	2.05	1.51	NS/+	
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	protein coding	3.97	5.48	1.51	+/+	
ENSG00000139793	MBNL2	muscleblind like splicing regulator 2 [Source:HGNC Symbol;Acc:HGNC:16746]	protein coding	1.49	2.97	1.49	NS/+	
ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	protein coding	2.86	4.35	1.48	+/+	
ENSG00000283162		STRAT6-like (Stra6l) pseudogene	transcribed unprocessed pseudogene	3.34	4.82	1.48	+/+	
ENSG00000198355	PIM3	Pim-3 proto-oncogene, serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:19310]	protein coding	2.69	4.17	1.48	+/+	
ENSG00000260668		emopamil binding protein-like (EBPL) pseudogene	processed pseudogene	-3.14	-1.66	1.48	-/NS	
ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]	protein coding	2.35	3.83	1.48	+/+	
ENSG00000164949	GEM	GTP binding protein overexpressed in skeletal muscle [Source:HGNC Symbol;Acc:HGNC:4234]	protein coding	2.40	3.87	1.47	+/+	
ENSG00000227195	MIR663AHG	MIR663A host gene [Source:HGNC Symbol;Acc:HGNC:27662]	processed transcript	1.61	3.08	1.47	NS/+	
ENSG00000163874	ZC3H12A	zinc finger CCCH-type containing 12A [Source:HGNC Symbol;Acc:HGNC:26259]	protein coding	1.11	2.58	1.47	NS/+	
ENSG00000181541	MAB21L2	mab-21 like 2 [Source:HGNC Symbol;Acc:HGNC:6758]	protein coding	3.70	5.16	1.46	+/+	
ENSG00000171246	NPTX1	neuronal pentraxin 1 [Source:HGNC Symbol;Acc:HGNC:7952]	protein coding	4.41	5.87	1.45	+/+	
ENSG00000087074	PPP1R15A	protein phosphatase 1 regulatory subunit 15A [Source:HGNC Symbol;Acc:HGNC:14375]	protein coding	4.80	6.25	1.45	+/+	
ENSG00000051596	THOC3	THO complex 3 [Source:HGNC Symbol;Acc:HGNC:19072]	protein coding	-2.05	-0.61	1.45	-/NS	
ENSG00000105656	ELL	elongation factor for RNA polymerase II [Source:HGNC Symbol;Acc:HGNC:23114]	protein coding	0.92	2.36	1.44	NS/+	
ENSG00000179965	ZNF771	zinc finger protein 771 [Source:HGNC Symbol;Acc:HGNC:29653]	protein coding	-2.03	-0.59	1.44	-/NS	
ENSG00000130299	GTPBP3	GTP binding protein 3, mitochondrial [Source:HGNC Symbol;Acc:HGNC:14880]	protein coding	0.76	2.19	1.43	NS/+	
ENSG00000073150	PANX2	pannexin 2 [Source:HGNC Symbol;Acc:HGNC:8600]	protein coding	-2.39	-0.96	1.43	-/NS	
ENSG00000100139	MICALL1	MICAL like 1 [Source:HGNC Symbol;Acc:HGNC:29804]	protein coding	0.64	2.07	1.43	NS/+	
ENSG00000235142	LINC02532	long intergenic non-protein coding RNA 2532 [Source:HGNC Symbol;Acc:HGNC:53549]	lncRNA	-2.37	-0.94	1.43	-/NS	

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ENSG00000225190	PLEKHM1	pleckstrin homology and RUN domain containing M1 [Source:HGNC Symbol;Acc:HGNC:29017]	protein coding	0.91	2.33	1.42	1.42	NS/+	
ENSG00000118046	STK11	serine/threonine kinase 11 [Source:HGNC Symbol;Acc:HGNC:11389]	protein coding	0.99	2.40	1.42	1.42	NS/+	
ENSG00000175311	ANKS4B	ankyrin repeat and sterile alpha motif domain containing 4B [Source:HGNC Symbol;Acc:HGNC:26795]	protein coding	-2.42	-1.01	1.41	1.41	-/NS	
ENSG00000145248	SLC10A4	solute carrier family 10 member 4 [Source:HGNC Symbol;Acc:HGNC:22980]	protein coding	-3.23	-1.83	1.41	1.41	-/NS	
ENSG00000104866	PPP1R37	protein phosphatase 1 regulatory subunit 37 [Source:HGNC Symbol;Acc:HGNC:27607]	protein coding	1.03	2.44	1.40	1.40	NS/+	
ENSG00000113272	THG1L	tRNA-histidine guanylyltransferase 1 like [Source:HGNC Symbol;Acc:HGNC:26053]	protein coding	0.97	2.37	1.40	1.40	NS/+	
ENSG00000205871	RPS3AP47	ribosomal protein S3a pseudogene 47 [Source:HGNC Symbol;Acc:HGNC:36744]	processed pseudogene	-2.18	-0.79	1.40	1.40	-/NS	
ENSG00000204616	TRIM31	tripartite motif containing 31 [Source:HGNC Symbol;Acc:HGNC:16289]	protein coding	1.38	2.77	1.39	1.39	NS/+	
ENSG00000163121	NEURL3	neuralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	protein coding	7.03	8.41	1.38	1.38	+/+	
ENSG00000100625	SIX4	SIX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:10890]	protein coding	1.23	2.59	1.37	1.37	NS/+	
ENSG00000158246	TENT5B	terminal nucleotidyltransferase 5B [Source:HGNC Symbol;Acc:HGNC:28273]	protein coding	2.14	3.49	1.35	1.35	+/+	
ENSG00000102870	ZNF629	zinc finger protein 629 [Source:HGNC Symbol;Acc:HGNC:29008]	protein coding	0.75	2.10	1.35	1.35	NS/+	
ENSG00000169155	ZBTB43	zinc finger and BTB domain containing 43 [Source:HGNC Symbol;Acc:HGNC:17908]	protein coding	1.56	2.90	1.34	1.34	NS/+	
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	protein coding	3.88	5.21	1.33	1.33	+/+	
ENSG00000101665	SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:HGNC:6773]	protein coding	0.73	2.05	1.32	1.32	NS/+	
ENSG00000178209	PLEC	plectin [Source:HGNC Symbol;Acc:HGNC:9069]	protein coding	2.02	3.34	1.32	1.32	+/+	
ENSG00000196588	MRTFA	myocardin related transcription factor A [Source:HGNC Symbol;Acc:HGNC:14334]	protein coding	1.78	3.07	1.29	1.29	NS/+	
ENSG00000166261	ZNF202	zinc finger protein 202 [Source:HGNC Symbol;Acc:HGNC:12994]	protein coding	0.92	2.22	1.29	1.29	NS/+	
ENSG00000198853	RUSC2	RUN and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23625]	protein coding	1.92	3.21	1.28	1.28	NS/+	
ENSG00000108187	PBLD	phenazine biosynthesis like protein domain containing [Source:HGNC Symbol;Acc:HGNC:23301]	protein coding	-2.52	-1.24	1.28	1.28	-/NS	
ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	protein coding	2.70	3.97	1.28	1.28	+/+	
ENSG00000175265	GOLGA8A	golgin A8 family member A [Source:HGNC Symbol;Acc:HGNC:31972]	protein coding	1.79	3.07	1.28	1.28	NS/+	
ENSG00000273297			lncRNA	-2.64	-1.38	1.26	1.26	-/NS	
ENSG00000205835	GMNC	geminin coiled-coil domain containing [Source:HGNC Symbol;Acc:HGNC:40049]	protein coding	-2.72	-1.47	1.25	1.25	-/NS	

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ENSG00000232040	ZBED9	zinc finger BED-type containing 9 [Source:HGNC Symbol;Acc:HGNC:13851]	protein coding	0.80	2.05	1.25	NS/+	
ENSG00000212409	RNY4P18	RNA, Ro-associated Y4 pseudogene 18 [Source:HGNC Symbol;Acc:HGNC:34068]	misc RNA	-2.72	-1.47	1.25	-/NS	
ENSG00000176058	TPRN	taperin [Source:HGNC Symbol;Acc:HGNC:26894]	protein coding	0.97	2.21	1.25	NS/+	
ENSG00000099364	FBXL19	F-box and leucine rich repeat protein 19 [Source:HGNC Symbol;Acc:HGNC:25300]	protein coding	1.27	2.51	1.24	NS/+	
ENSG00000111252	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:29605]	protein coding	2.39	3.63	1.24	+/+	
ENSG00000244062		acyl-CoA synthetase long-chain family member 3 (ACSL3) pseudogene	processed pseudogene	-2.57	-1.34	1.23	-/NS	
ENSG00000176155	CCDC57	coiled-coil domain containing 57 [Source:HGNC Symbol;Acc:HGNC:27564]	protein coding	1.88	3.11	1.23	NS/+	
ENSG00000167378	IRGQ	immunity related GTPase Q [Source:HGNC Symbol;Acc:HGNC:24868]	protein coding	1.51	2.73	1.22	NS/+	
ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]	protein coding	3.08	4.31	1.22	+/+	
ENSG00000185950	IRS2	insulin receptor substrate 2 [Source:HGNC Symbol;Acc:HGNC:6126]	protein coding	2.92	4.13	1.22	+/+	
ENSG00000226608	FTLP3	ferritin light chain pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:4000]	processed pseudogene	-2.21	-0.99	1.21	-/NS	
ENSG00000187134	AKR1C1	aldo-keto reductase family 1 member C1 [Source:HGNC Symbol;Acc:HGNC:384]	protein coding	-2.21	-1.01	1.21	-/NS	
ENSG00000218891	ZNF579	zinc finger protein 579 [Source:HGNC Symbol;Acc:HGNC:26646]	protein coding	1.45	2.65	1.20	NS/+	
ENSG00000231345	BEND3P1	BEN domain containing 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:45014]	transcribed processed pseudogene	1.09	2.29	1.20	NS/+	
ENSG00000206822			misc RNA	-4.12	-2.92	1.20	-/NS	
ENSG00000259248	USP3-AS1	USP3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44140]	antisense	-3.42	-2.23	1.19	-/NS	
ENSG00000129173	E2F8	E2F transcription factor 8 [Source:HGNC Symbol;Acc:HGNC:24727]	protein coding	-2.69	-1.50	1.19	-/NS	
ENSG00000100403	ZC3H7B	zinc finger CCCH-type containing 7B [Source:HGNC Symbol;Acc:HGNC:30869]	protein coding	1.49	2.68	1.19	NS/+	
ENSG00000205903	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:13843]	protein coding	2.08	3.26	1.18	+/+	
ENSG00000175197	DDIT3	DNA damage inducible transcript 3 [Source:HGNC Symbol;Acc:HGNC:2726]	protein coding	4.17	5.35	1.18	+/+	
ENSG00000198026	ZNF335	zinc finger protein 335 [Source:HGNC Symbol;Acc:HGNC:15807]	protein coding	1.28	2.45	1.17	NS/+	
ENSG0000067992	PDK3	pyruvate dehydrogenase kinase 3 [Source:HGNC Symbol;Acc:HGNC:8811]	protein coding	-3.30	-2.13	1.17	-/-	
ENSG00000114841	DNAH1	dynein axonemal heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:2940]	protein coding	1.99	3.16	1.17	NS/+	
ENSG00000131781	FMO5	flavin containing monooxygenase 5 [Source:HGNC Symbol;Acc:HGNC:3773]	protein coding	-3.37	-2.21	1.16	-/-	

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ENSG00000197355	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1 like 1 [Source:HGNC Symbol;Acc:HGNC:28082]	protein coding	2.13	3.30	1.16	+/-	
ENSG00000138639	ARHGAP24	Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:HGNC:25361]	protein coding	1.91	3.07	1.16	NS/+	
ENSG00000087085	ACHE	acetylcholinesterase (Cartwright blood group) [Source:HGNC Symbol;Acc:HGNC:108]	protein coding	4.63	5.78	1.15	NS/+	
ENSG00000198056	PRIM1	DNA primase subunit 1 [Source:HGNC Symbol;Acc:HGNC:9369]	protein coding	-2.64	-1.49	1.15	-/NS	
ENSG00000198624	CCDC69	coiled-coil domain containing 69 [Source:HGNC Symbol;Acc:HGNC:24487]	protein coding	-2.27	-1.12	1.15	-/NS	
ENSG00000087266	SH3BP2	SH3 domain binding protein 2 [Source:HGNC Symbol;Acc:HGNC:10825]	protein coding	3.48	4.63	1.15	+/-	
ENSG00000167994	RAB3IL1	RAB3A interacting protein like 1 [Source:HGNC Symbol;Acc:HGNC:9780]	protein coding	1.30	2.44	1.14	NS/+	
ENSG00000101216	GMEB2	glucocorticoid modulatory element binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4371]	protein coding	1.66	2.80	1.14	NS/+	
ENSG00000180448	ARHGAP45	Rho GTPase activating protein 45 [Source:HGNC Symbol;Acc:HGNC:17102]	protein coding	1.35	2.49	1.14	NS/+	
ENSG00000145911	N4BP3	NEDD4 binding protein 3 [Source:HGNC Symbol;Acc:HGNC:29852]	protein coding	1.69	2.83	1.13	NS/+	
ENSG00000105298	CACTIN	cactin, spliceosome C complex subunit [Source:HGNC Symbol;Acc:HGNC:29938]	protein coding	1.22	2.35	1.13	NS/+	
ENSG00000158079	PTPDC1	protein tyrosine phosphatase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:30184]	protein coding	1.49	2.63	1.13	NS/+	
ENSG00000251562	MALAT1	metastasis associated lung adenocarcinoma transcript 1 [Source:HGNC Symbol;Acc:HGNC:29665]	lincRNA	0.94	2.07	1.13	NS/+	
ENSG00000079112	CDH17	cadherin 17 [Source:HGNC Symbol;Acc:HGNC:1756]	protein coding	-2.84	-1.72	1.12	-/NS	
ENSG00000116954	RRAGC	Ras related GTP binding C [Source:HGNC Symbol;Acc:HGNC:19902]	protein coding	1.46	2.57	1.11	NS/+	
ENSG00000197989	SNHG12	small nucleolar RNA host gene 12 [Source:HGNC Symbol;Acc:HGNC:30062]	antisense	1.51	2.62	1.11	NS/+	
ENSG00000116786	PLEKHM2	pleckstrin homology and RUN domain containing M2 [Source:HGNC Symbol;Acc:HGNC:29131]	protein coding	1.21	2.31	1.11	NS/+	
ENSG00000243955	GSTA1	glutathione S-transferase alpha 1 [Source:HGNC Symbol;Acc:HGNC:4626]	protein coding	-2.04	-0.94	1.09	-/NS	
ENSG00000198837	DENN4B	DENN domain containing 4B [Source:HGNC Symbol;Acc:HGNC:29044]	protein coding	1.08	2.17	1.09	NS/+	
ENSG00000107742	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2 [Source:HGNC Symbol;Acc:HGNC:13564]	protein coding	-2.83	-1.74	1.09	-/NS	
ENSG00000213398	LCAT	lecithin-cholesterol acyltransferase [Source:HGNC Symbol;Acc:HGNC:6522]	protein coding	2.41	3.50	1.09	+/-	
ENSG00000079313	REXO1	RNA exonuclease 1 homolog [Source:HGNC Symbol;Acc:HGNC:24616]	protein coding	1.59	2.68	1.08	NS/+	
ENSG00000198393	ZNF26	zinc finger protein 26 [Source:HGNC Symbol;Acc:HGNC:13053]	protein coding	1.32	2.40	1.08	NS/+	

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ENSG00000146067	FAM193B	family with sequence similarity 193 member B [Source:HGNC Symbol;Acc:HGNC:25524]	protein coding	1.66	2.74	1.08	NS/+	
ENSG00000008710	PKD1	polycystin 1, transient receptor potential channel interacting [Source:HGNC Symbol;Acc:HGNC:9008]	protein coding	1.12	2.20	1.08	NS/+	
ENSG00000079432	CIC	capicua transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:14214]	protein coding	1.87	2.95	1.08	NS/+	
ENSG00000099617	EFNA2	ephrin A2 [Source:HGNC Symbol;Acc:HGNC:3222]	protein coding	-2.20	-1.12	1.08	-/NS	
ENSG00000163884	KLF15	Kruppel like factor 15 [Source:HGNC Symbol;Acc:HGNC:14536]	protein coding	1.27	2.34	1.07	NS/+	
ENSG00000125089	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:26009]	protein coding	2.09	3.15	1.06	+/+	
ENSG00000158156	XKR8	XK related 8 [Source:HGNC Symbol;Acc:HGNC:25508]	protein coding	-2.38	-1.32	1.06	-/NS	
ENSG00000161888	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:HGNC:26913]	protein coding	-2.58	-1.52	1.06	-/NS	
ENSG00000135924	DNAJB2	DnaJ heat shock protein family (Hsp40) member B2 [Source:HGNC Symbol;Acc:HGNC:5228]	protein coding	0.95	2.01	1.05	NS/+	
ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]	protein coding	2.91	3.96	1.05	+/+	
ENSG00000181026	AEN	apoptosis enhancing nuclease [Source:HGNC Symbol;Acc:HGNC:25722]	protein coding	1.34	2.39	1.05	NS/+	
ENSG00000267796	LIN37	lin-37 DREAM MuvB core complex component [Source:HGNC Symbol;Acc:HGNC:33234]	protein coding	1.36	2.41	1.05	NS/+	
ENSG00000184545	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:HGNC:3074]	protein coding	5.48	6.52	1.05	+/+	
ENSG00000160991	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:HGNC:21667]	protein coding	1.35	2.40	1.05	NS/+	
ENSG00000132677	RHBG	Rh family B glycoprotein (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:14572]	protein coding	-2.82	-1.79	1.03	-/NS	
ENSG00000151632	AKR1C2	aldo-keto reductase family 1 member C2 [Source:HGNC Symbol;Acc:HGNC:385]	protein coding	-2.19	-1.16	1.03	-/NS	
ENSG00000118263	KLF7	Kruppel like factor 7 [Source:HGNC Symbol;Acc:HGNC:6350]	protein coding	2.64	3.66	1.02	+/+	
ENSG00000150457	LATS2	large tumor suppressor kinase 2 [Source:HGNC Symbol;Acc:HGNC:6515]	protein coding	1.60	2.61	1.01	NS/+	
ENSG00000215252	GOLGA8B	golgin A8 family member B [Source:HGNC Symbol;Acc:HGNC:31973]	protein coding	3.48	4.49	1.01	+/NS	
ENSG00000166166	TRMT61A	tRNA methyltransferase 61A [Source:HGNC Symbol;Acc:HGNC:23790]	protein coding	1.08	2.08	1.00	NS/+	
ENSG00000103264	FBXO31	F-box protein 31 [Source:HGNC Symbol;Acc:HGNC:16510]	protein coding	1.04	2.04	1.00	NS/+	
ENSG0000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	protein coding	1.74	2.74	1.00	NS/+	
ENSG00000118900	UBN1	ubinuclein 1 [Source:HGNC Symbol;Acc:HGNC:12506]	protein coding	1.57	2.57	1.00	NS/+	
ENSG00000143643	TTC13	tetratricopeptide repeat domain 13 [Source:HGNC Symbol;Acc:HGNC:26204]	protein coding	-2.76	-1.78	0.99	-/NS	

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ENSG0000056558	TRAF1	TNF receptor associated factor 1 [Source:HGNC Symbol;Acc:HGNC:12031]	protein coding	5.32	6.30	0.98	+/-	
ENSG00000263528	IKBKE	inhibitor of nuclear factor kappa B kinase subunit epsilon [Source:HGNC Symbol;Acc:HGNC:14552]	protein coding	1.99	2.96	0.98	NS/+	
ENSG00000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]	protein coding	1.45	2.43	0.97	NS/+	
ENSG00000154370	TRIM11	tripartite motif containing 11 [Source:HGNC Symbol;Acc:HGNC:16281]	protein coding	1.45	2.43	0.97	NS/+	
ENSG00000185361	TNFAIP8L1	TNF alpha induced protein 8 like 1 [Source:HGNC Symbol;Acc:HGNC:28279]	protein coding	-2.26	-1.29	0.97	-/NS	
ENSG00000201021	RNU6-743P	RNA, U6 small nuclear 743, pseudogene [Source:HGNC Symbol;Acc:HGNC:47706]	snRNA	-2.22	-1.26	0.97	-/NS	
ENSG00000103168	TAF1C	TATA-box binding protein associated factor, RNA polymerase I subunit C [Source:HGNC Symbol;Acc:HGNC:11534]	protein coding	1.46	2.43	0.96	NS/+	
ENSG00000109089	CDR2L	cerebellar degeneration related protein 2 like [Source:HGNC Symbol;Acc:HGNC:29999]	protein coding	1.14	2.10	0.95	NS/+	
ENSG00000164284	GRPEL2	GrpE like 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:21060]	protein coding	1.26	2.21	0.95	NS/+	
ENSG00000200855			misc RNA	-2.41	-1.47	0.94	-/NS	
ENSG00000129932	DOHH	deoxyhypusine hydroxylase [Source:HGNC Symbol;Acc:HGNC:28662]	protein coding	1.58	2.52	0.94	NS/+	
ENSG0000010818	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4921]	protein coding	2.68	3.61	0.94	+/-	
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	protein coding	3.37	4.30	0.93	+/-	
ENSG00000250144		eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) pseudogene	processed pseudogene	-2.36	-1.43	0.93	-/NS	
ENSG00000173702	MUC13	mucin 13, cell surface associated [Source:HGNC Symbol;Acc:HGNC:7511]	protein coding	-2.06	-1.14	0.92	-/NS	
ENSG00000166997	CNPY4	canopy FGF signaling regulator 4 [Source:HGNC Symbol;Acc:HGNC:28631]	protein coding	-2.23	-1.31	0.92	-/NS	
ENSG00000232956	SNHG15	small nucleolar RNA host gene 15 [Source:HGNC Symbol;Acc:HGNC:27797]	lincRNA	1.71	2.62	0.91	NS/+	
ENSG00000117450	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:9352]	protein coding	-2.17	-1.27	0.90	-/NS	
ENSG00000171992	SYNPO	synaptopodin [Source:HGNC Symbol;Acc:HGNC:30672]	protein coding	1.81	2.70	0.90	NS/+	
ENSG00000090238	YPEL3	yippee like 3 [Source:HGNC Symbol;Acc:HGNC:18327]	protein coding	-2.29	-1.40	0.89	-/NS	
ENSG00000141994	DUS3L	dihydrouridine synthase 3 like [Source:HGNC Symbol;Acc:HGNC:26920]	protein coding	1.64	2.52	0.88	NS/+	
ENSG00000163536	SERPINI1	serpin family I member 1 [Source:HGNC Symbol;Acc:HGNC:8943]	protein coding	-2.78	-1.90	0.88	-/NS	
ENSG00000144820	ADGRG7	adhesion G protein-coupled receptor G7 [Source:HGNC Symbol;Acc:HGNC:19241]	protein coding	-3.25	-2.37	0.88	-/NS	

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ENSG00000177169	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:HGNC:12558]	protein coding	1.36	2.23	0.87	NS/+		
ENSG00000116809	ZBTB17	zinc finger and BTB domain containing 17 [Source:HGNC Symbol;Acc:HGNC:12936]	protein coding	1.36	2.21	0.86	NS/+		
ENSG00000245205	EEF1A1P4	eukaryotic translation elongation factor 1 alpha 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:3199]	processed pseudogene	-2.26	-1.40	0.85	-/NS		
ENSG00000146233	CYP39A1	cytochrome P450 family 39 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:17449]	protein coding	-2.62	-1.77	0.85	-/NS		
ENSG00000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]	protein coding	1.89	2.74	0.84	NS/+		
ENSG00000169871	TRIM56	tripartite motif containing 56 [Source:HGNC Symbol;Acc:HGNC:19028]	protein coding	1.17	2.01	0.84	NS/+		
ENSG00000054219	LY75	lymphocyte antigen 75 [Source:HGNC Symbol;Acc:HGNC:6729]	protein coding	-3.31	-2.47	0.84	-/NS		
ENSG00000106701	FSD1L	fibronectin type III and SPRY domain containing 1 like [Source:HGNC Symbol;Acc:HGNC:13753]	protein coding	1.28	2.11	0.84	NS/+		
ENSG00000185133	INPP5J	inositol polyphosphate-5-phosphatase J [Source:HGNC Symbol;Acc:HGNC:8956]	protein coding	2.58	3.41	0.83	+/*		
ENSG00000155254	MARVELD1	MARVEL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28674]	protein coding	-2.08	-1.25	0.83	-/NS		
ENSG00000162433	AK4	adenylate kinase 4 [Source:HGNC Symbol;Acc:HGNC:363]	protein coding	-2.42	-1.59	0.82	-/NS		
ENSG00000089127	OAS1	2'-5'-oligoadenylate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:8086]	protein coding	1.91	2.73	0.82	NS/+		
ENSG00000104044	OCA2	OCA2 melanosomal transmembrane protein [Source:HGNC Symbol;Acc:HGNC:8101]	protein coding	-2.42	-1.60	0.82	-/NS		
ENSG00000167962	ZNF598	zinc finger protein 598 [Source:HGNC Symbol;Acc:HGNC:28079]	protein coding	1.28	2.10	0.82	NS/+		
ENSG00000152527	PLEKHH2	pleckstrin homology, MyTH4 and FERM domain containing H2 [Source:HGNC Symbol;Acc:HGNC:30506]	protein coding	2.31	3.13	0.82	+/*		
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	protein coding	2.85	3.67	0.82	+/*		
ENSG00000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	protein coding	3.43	4.25	0.81	+/*		
ENSG00000038382	TRIO	trio Rho guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:12303]	protein coding	1.42	2.23	0.81	NS/+		
ENSG00000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]	protein coding	-2.34	-1.54	0.80	-/NS		
ENSG00000205356	TECPR1	tectonin beta-propeller repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:22214]	protein coding	1.82	2.62	0.80	NS/+		
ENSG00000113645	WWC1	WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29435]	protein coding	1.66	2.45	0.80	NS/+		
ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]	protein coding	2.05	2.84	0.80	+/*		
ENSG00000185022	MAFF	MAF bZIP transcription factor F [Source:HGNC Symbol;Acc:HGNC:6780]	protein coding	4.83	5.62	0.79	+/*		

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ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]	protein coding	-2.44	-1.65	0.79	-/NS	
ENSG00000242802	AP5Z1	adaptor related protein complex 5 subunit zeta 1 [Source:HGNC Symbol;Acc:HGNC:22197]	protein coding	2.66	3.44	0.78	+/*	
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	protein coding	7.73	8.51	0.78	+/*	
ENSG0000011132	APBA3	amyloid beta precursor protein binding family A member 3 [Source:HGNC Symbol;Acc:HGNC:580]	protein coding	2.26	3.02	0.76	+/*	
ENSG00000099889	ARVCF	ARVCF, delta catenin family member [Source:HGNC Symbol;Acc:HGNC:728]	protein coding	3.04	3.80	0.76	+/*	
ENSG00000141582	CBX4	chromobox 4 [Source:HGNC Symbol;Acc:HGNC:1554]	protein coding	2.05	2.81	0.76	+/*	
ENSG00000166963	MAP1A	microtubule associated protein 1A [Source:HGNC Symbol;Acc:HGNC:6835]	protein coding	-2.89	-2.13	0.76	-/-	
ENSG00000173559	NABP1	nucleic acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:26232]	protein coding	1.38	2.14	0.76	NS/+	
ENSG00000106266	SNX8	sorting nexin 8 [Source:HGNC Symbol;Acc:HGNC:14972]	protein coding	1.97	2.73	0.76	NS/+	
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	protein coding	2.99	3.74	0.75	+/*	
ENSG00000105137	SYDE1	synapse defective Rho GTPase homolog 1 [Source:HGNC Symbol;Acc:HGNC:25824]	protein coding	1.40	2.14	0.74	NS/+	
ENSG00000237945	LINC00649	long intergenic non-protein coding RNA 649 [Source:HGNC Symbol;Acc:HGNC:44305]	antisense	-2.08	-1.34	0.74	-/NS	
ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	protein coding	2.46	3.20	0.74	+/*	
ENSG00000137135	ARHGEF39	Rho guanine nucleotide exchange factor 39 [Source:HGNC Symbol;Acc:HGNC:25909]	protein coding	-2.25	-1.52	0.73	-/NS	
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	protein coding	3.30	4.03	0.73	+/*	
ENSG00000129474	AJUBA	ajuba LIM protein [Source:HGNC Symbol;Acc:HGNC:20250]	protein coding	1.62	2.34	0.72	NS/+	
ENSG00000163945	UVSSA	UV stimulated scaffold protein A [Source:HGNC Symbol;Acc:HGNC:29304]	protein coding	1.35	2.06	0.72	NS/+	
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	protein coding	2.76	3.47	0.71	+/*	
ENSG00000260822		novel transcript, overlapping to PDK3	sense overlapping	-2.48	-1.77	0.71	-/NS	
ENSG00000272333	KMT2B	lysine methyltransferase 2B [Source:HGNC Symbol;Acc:HGNC:15840]	protein coding	2.03	2.74	0.71	+/*	
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	protein coding	2.86	3.56	0.70	+/*	
ENSG00000143507	DUSP10	dual specificity phosphatase 10 [Source:HGNC Symbol;Acc:HGNC:3065]	protein coding	1.46	2.16	0.70	NS/+	
ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	protein coding	1.79	2.48	0.69	NS/+	

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ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	protein coding	6.14	6.83	0.69	+/-	
ENSG00000187867	PALM3	paralemmin 3 [Source:HGNC Symbol;Acc:HGNC:33274]	protein coding	-3.27	-2.58	0.69	-/-	
ENSG00000188921	HACD4	3-hydroxyacyl-CoA dehydratase 4 [Source:HGNC Symbol;Acc:HGNC:20920]	protein coding	-2.71	-2.03	0.69	-/NS	
ENSG00000173930	SLCO4C1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	protein coding	-3.27	-2.59	0.68	-/-	
ENSG00000126391	FRMD8	FERM domain containing 8 [Source:HGNC Symbol;Acc:HGNC:25462]	protein coding	1.35	2.03	0.68	NS/+	
ENSG00000141084	RANBP10	RAN binding protein 10 [Source:HGNC Symbol;Acc:HGNC:29285]	protein coding	1.52	2.18	0.67	NS/+	
ENSG00000163032	VSNL1	visinin like 1 [Source:HGNC Symbol;Acc:HGNC:12722]	protein coding	-2.05	-1.38	0.67	-/NS	
ENSG0000006062	MAP3K14	mitogen-activated protein kinase kinase kinase 14 [Source:HGNC Symbol;Acc:HGNC:6853]	protein coding	1.37	2.04	0.66	NS/+	
ENSG00000178301	AQP11	aquaporin 11 [Source:HGNC Symbol;Acc:HGNC:19940]	protein coding	-2.89	-2.23	0.66	-/-	
ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:37832]	transcribed unprocessed pseudogene	2.77	3.43	0.66	+/-	
ENSG00000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]	protein coding	2.67	3.32	0.66	+/-	
ENSG00000174276	ZNHIT2	zinc finger HIT-type containing 2 [Source:HGNC Symbol;Acc:HGNC:1177]	protein coding	1.53	2.19	0.66	NS/+	
ENSG00000224032	EPB41L4A-AS1	EPB41L4A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:30749]	lincRNA	3.06	3.72	0.66	+/-	
ENSG00000146826	C7orf43	chromosome 7 open reading frame 43 [Source:HGNC Symbol;Acc:HGNC:25604]	protein coding	1.41	2.05	0.65	NS/+	
ENSG00000177410	ZFAS1	ZNF1X antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:33101]	antisense	1.41	2.05	0.65	NS/+	
ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]	protein coding	5.50	6.14	0.64	+/-	
ENSG00000249115	HAUS5	HAUS augmin like complex subunit 5 [Source:HGNC Symbol;Acc:HGNC:29130]	protein coding	1.42	2.07	0.64	NS/+	
ENSG00000279673	TEC		TEC	-2.49	-1.85	0.64	-/NS	
ENSG00000172216	CEPB	CCAAT enhancer binding protein beta [Source:HGNC Symbol;Acc:HGNC:1834]	protein coding	3.20	3.83	0.64	+/-	
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3796]	protein coding	4.86	5.49	0.63	+/-	
ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]	protein coding	-2.30	-1.68	0.62	-/NS	
ENSG00000147883	CDKN2B	cyclin dependent kinase inhibitor 2B [Source:HGNC Symbol;Acc:HGNC:1788]	protein coding	2.96	3.58	0.62	+/-	
ENSG00000188522	FAM83G	family with sequence similarity 83 member G [Source:HGNC Symbol;Acc:HGNC:32554]	protein coding	2.60	3.22	0.62	+/-	
ENSG00000133454	MYO18B	myosin XVIIIB [Source:HGNC Symbol;Acc:HGNC:18150]	protein coding	1.48	2.09	0.61	NS/+	

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ENSG00000179094	PER1	period circadian regulator 1 [Source:HGNC Symbol;Acc:HGNC:8845]	protein coding	2.11	2.71	0.60	+/-	
ENSG00000113240	CLK4	CDC like kinase 4 [Source:HGNC Symbol;Acc:HGNC:13659]	protein coding	1.42	2.02	0.60	NS/+	
ENSG00000180089	TMEM86B	transmembrane protein 86B [Source:HGNC Symbol;Acc:HGNC:28448]	protein coding	-2.73	-2.15	0.58	-/NS	
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	protein coding	2.59	3.16	0.57	+/-	
ENSG00000163586	FABP1	fatty acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:3555]	protein coding	-2.19	-1.62	0.57	-/NS	
ENSG00000118495	PLAGL1	PLAG1 like zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:9046]	protein coding	1.54	2.11	0.57	NS/+	
ENSG00000139292	LGR5	leucine rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:HGNC:4504]	protein coding	-2.88	-2.33	0.55	-/-	
ENSG00000127920	GNG11	G protein subunit gamma 11 [Source:HGNC Symbol;Acc:HGNC:4403]	protein coding	-2.39	-1.85	0.54	-/NS	
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	protein coding	4.04	4.57	0.54	+/-	
ENSG00000186162	CIDECP	cell death-inducing DFFA-like effector c pseudogene [Source:HGNC Symbol;Acc:HGNC:24230]	transcribed unprocessed pseudogene	1.63	2.16	0.53	NS/+	
ENSG00000165655	ZNF503	zinc finger protein 503 [Source:HGNC Symbol;Acc:HGNC:23589]	protein coding	2.08	2.62	0.53	+/-	
ENSG00000164237	CMBL	carboxymethylenebutenolidase homolog [Source:HGNC Symbol;Acc:HGNC:25090]	protein coding	-2.29	-1.77	0.53	-/NS	
ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	protein coding	3.43	3.96	0.52	+/-	
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	protein coding	4.88	5.40	0.52	+/-	
ENSG0000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]	protein coding	2.08	2.59	0.51	+/-	
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	protein coding	2.65	3.16	0.51	+/-	
ENSG00000169752	NRG4	neuregulin 4 [Source:HGNC Symbol;Acc:HGNC:29862]	protein coding	-2.06	-1.56	0.50	-/NS	
ENSG00000068323	TFE3	transcription factor binding to IGHM enhancer 3 [Source:HGNC Symbol;Acc:HGNC:11752]	protein coding	1.52	2.01	0.49	NS/+	
ENSG00000100425	BRD1	bromodomain containing 1 [Source:HGNC Symbol;Acc:HGNC:1102]	protein coding	1.59	2.08	0.49	NS/+	
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	protein coding	5.00	5.49	0.49	+/-	
ENSG00000253616		novel transcript	antisense	3.17	3.65	0.48	+/-	
ENSG00000197976	AKAP17A	A-kinase anchoring protein 17A [Source:HGNC Symbol;Acc:HGNC:18783]	protein coding	2.86	3.35	0.48	+/-	
ENSG00000178814	OPLAH	5-oxoprolinase, ATP-hydrolysing [Source:HGNC Symbol;Acc:HGNC:8149]	protein coding	1.66	2.14	0.48	NS/+	

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ENSG00000130522	JUND	JunD proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6206]	protein coding	1.98	2.46	0.48	NS/+	
ENSG00000171223	JUNB	JunB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6205]	protein coding	4.03	4.50	0.48	+/+	
ENSG00000120937	NPPB	natriuretic peptide B [Source:HGNC Symbol;Acc:HGNC:7940]	protein coding	3.44	3.91	0.48	+/+	
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	protein coding	6.01	6.49	0.47	+/+	
ENSG00000105325	FZR1	fizzy and cell division cycle 20 related 1 [Source:HGNC Symbol;Acc:HGNC:24824]	protein coding	1.54	2.01	0.47	NS/+	
ENSG00000167522	ANKRD11	ankyrin repeat domain 11 [Source:HGNC Symbol;Acc:HGNC:21316]	protein coding	1.71	2.18	0.47	NS/+	
ENSG00000179832	MROH1	maestro heat like repeat family member 1 [Source:HGNC Symbol;Acc:HGNC:26958]	protein coding	1.85	2.32	0.46	NS/+	
ENSG00000102048	ASB9	ankyrin repeat and SOCS box containing 9 [Source:HGNC Symbol;Acc:HGNC:17184]	protein coding	-2.04	-1.58	0.46	-/NS	
ENSG00000128294	TPST2	tyrosylprotein sulfotransferase 2 [Source:HGNC Symbol;Acc:HGNC:12021]	protein coding	-2.35	-1.89	0.46	-/NS	
ENSG00000125740	FOSB	FosB proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:3797]	protein coding	7.25	7.71	0.45	+/+	
ENSG00000285711			lincRNA	1.68	2.12	0.44	NS/+	
ENSG00000223478			antisense	-2.79	-2.35	0.44	-/NS	
ENSG00000168495	POLR3D	RNA polymerase III subunit D [Source:HGNC Symbol;Acc:HGNC:1080]	protein coding	1.59	2.02	0.43	NS/+	
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	protein coding	4.18	4.61	0.43	+/+	
ENSG00000167995	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:HGNC:12703]	protein coding	4.17	4.60	0.43	+/+	
ENSG00000158023	WDR66	WD repeat domain 66 [Source:HGNC Symbol;Acc:HGNC:28506]	protein coding	3.71	4.12	0.41	+/+	
ENSG00000131115	ZNF227	zinc finger protein 227 [Source:HGNC Symbol;Acc:HGNC:13020]	protein coding	1.64	2.04	0.40	NS/+	
ENSG00000183840	GPR39	G protein-coupled receptor 39 [Source:HGNC Symbol;Acc:HGNC:4496]	protein coding	-2.02	-1.62	0.40	-/NS	
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	protein coding	3.25	3.65	0.40	+/+	
ENSG00000112773	TENT5A	terminal nucleotidyltransferase 5A [Source:HGNC Symbol;Acc:HGNC:18345]	protein coding	1.81	2.21	0.40	NS/+	
ENSG00000132109	TRIM21	tripartite motif containing 21 [Source:HGNC Symbol;Acc:HGNC:11312]	protein coding	1.74	2.13	0.39	NS/+	
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	protein coding	4.38	4.76	0.38	+/+	
ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	protein coding	2.08	2.47	0.38	+/+	
ENSG00000268916	CSAG3	CSAG family member 3 [Source:HGNC Symbol;Acc:HGNC:26237]	protein coding	2.22	2.60	0.38	+/NS	

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ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	protein coding	2.73	3.11	0.38	+/-	
ENSG00000275342	PRAG1	PEAK1 related, kinase-activating pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:25438]	protein coding	2.64	3.01	0.38	+/-	
ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]	protein coding	-3.59	-3.22	0.37	-/-	
ENSG00000171855	IFNB1	interferon beta 1 [Source:HGNC Symbol;Acc:HGNC:5434]	protein coding	9.46	9.83	0.37	+/-	
ENSG00000232332		ADP-ribosylation factor-like 5 (ARL5) pseudogene	processed pseudogene	-2.51	-2.14	0.37	-/NS	
ENSG00000240065	PSMB9	proteasome subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	protein coding	2.47	2.83	0.36	+/-	
ENSG00000198346	ZNF813	zinc finger protein 813 [Source:HGNC Symbol;Acc:HGNC:33257]	protein coding	-2.36	-2.00	0.36	-/NS	
ENSG00000135617	PRADC1	protease associated domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16047]	protein coding	-2.22	-1.88	0.34	-/NS	
ENSG00000223229	RN7SKP270	RNA, 7SK small nuclear pseudogene 270 [Source:HGNC Symbol;Acc:HGNC:45994]	misc RNA	-2.03	-1.69	0.34	-/NS	
ENSG00000102996	MMP15	matrix metallopeptidase 15 [Source:HGNC Symbol;Acc:HGNC:7161]	protein coding	-2.13	-1.79	0.33	-/NS	
ENSG00000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	protein coding	2.52	2.85	0.33	+/-	
ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	lincRNA	-2.20	-1.87	0.33	-/NS	
ENSG00000237187	NR2F1-AS1	NR2F1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48622]	antisense	2.22	2.54	0.32	+/NS	
ENSG00000114019	AMOTL2	angiotonin like 2 [Source:HGNC Symbol;Acc:HGNC:17812]	protein coding	3.11	3.42	0.32	+/-	
ENSG00000229474	PATL2	PAT1 homolog 2 [Source:HGNC Symbol;Acc:HGNC:33630]	protein coding	2.43	2.75	0.31	+/NS	
ENSG00000105321	CCDC9	coiled-coil domain containing 9 [Source:HGNC Symbol;Acc:HGNC:24560]	protein coding	2.11	2.41	0.30	+/-	
ENSG00000099860	GADD45B	growth arrest and DNA damage inducible beta [Source:HGNC Symbol;Acc:HGNC:4096]	protein coding	3.84	4.15	0.30	+/-	
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	protein coding	6.19	6.49	0.29	+/-	
ENSG00000100906	NFKBIA	NFKB inhibitor alpha [Source:HGNC Symbol;Acc:HGNC:7797]	protein coding	2.66	2.93	0.28	+/-	
ENSG00000070404	FSTL3	follistatin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	protein coding	1.78	2.06	0.28	NS/+	
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	protein coding	2.56	2.82	0.27	+/-	
ENSG00000039523	RIPOR1	RHO family interacting cell polarization regulator 1 [Source:HGNC Symbol;Acc:HGNC:25836]	protein coding	1.85	2.10	0.26	NS/+	
ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	protein coding	-3.14	-2.88	0.26	-/-	

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ENSG00000117834	SLC5A9	solute carrier family 5 member 9 [Source:HGNC Symbol;Acc:HGNC:22146]	protein coding	-2.81	-2.55	0.25	NS/-	
ENSG00000166173	LARP6	La ribonucleoprotein domain family member 6 [Source:HGNC Symbol;Acc:HGNC:24012]	protein coding	1.95	2.20	0.25	NS/+	
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	protein coding	3.30	3.55	0.25	+/+	
ENSG00000173210	ABLIM3	actin binding LIM protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29132]	protein coding	2.53	2.78	0.25	+/+	
ENSG00000127324	TSPAN8	tetraspanin 8 [Source:HGNC Symbol;Acc:HGNC:11855]	protein coding	-2.45	-2.22	0.24	-/-	
ENSG00000221988	PPT2	palmitoyl-protein thioesterase 2 [Source:HGNC Symbol;Acc:HGNC:9326]	protein coding	-2.59	-2.36	0.23	-/NS	
ENSG00000148339	SLC25A25	solute carrier family 25 member 25 [Source:HGNC Symbol;Acc:HGNC:20663]	protein coding	3.82	4.06	0.23	+/+	
ENSG00000127666	TICAM1	toll like receptor adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:18348]	protein coding	2.43	2.66	0.23	+/+	
ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	protein coding	3.12	3.35	0.23	+/+	
ENSG00000174684	B4GAT1	beta-1,4-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]	protein coding	-2.54	-2.32	0.21	-/-	
ENSG00000113790	EHHADH	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3247]	protein coding	-2.23	-2.02	0.20	-/-	
ENSG00000167081	PBX3	PBX homeobox 3 [Source:HGNC Symbol;Acc:HGNC:8634]	protein coding	-2.14	-1.94	0.20	-/NS	
ENSG00000167395	ZNF646	zinc finger protein 646 [Source:HGNC Symbol;Acc:HGNC:29004]	protein coding	1.85	2.04	0.19	NS/+	
ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	protein coding	4.48	4.67	0.19	+/+	
ENSG00000074590	NUAK1	NUAK family kinase 1 [Source:HGNC Symbol;Acc:HGNC:14311]	protein coding	1.97	2.15	0.18	NS/+	
ENSG00000177669	MBOAT4	membrane bound O-acyltransferase domain containing 4 [Source:HGNC Symbol;Acc:HGNC:32311]	protein coding	-3.09	-2.91	0.17	NS/-	
ENSG00000151743	AMN1	antagonist of mitotic exit network 1 homolog [Source:HGNC Symbol;Acc:HGNC:27281]	protein coding	-2.00	-1.83	0.17	-/NS	
ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	protein coding	2.13	2.29	0.16	+/+	
ENSG00000163581	SLC2A2	solute carrier family 2 member 2 [Source:HGNC Symbol;Acc:HGNC:11006]	protein coding	-2.32	-2.17	0.15	-/-	
ENSG00000251136			lincRNA	2.54	2.69	0.15	+/+	
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	protein coding	2.12	2.26	0.14	+/+	
ENSG00000087494	PTHLH	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	protein coding	3.87	4.00	0.13	+/+	
ENSG00000214655	ZSWIM8	zinc finger SWIM-type containing 8 [Source:HGNC Symbol;Acc:HGNC:23528]	protein coding	2.34	2.48	0.13	+/+	

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ENSG00000215041	NEURL4	neuralized E3 ubiquitin protein ligase 4 [Source:HGNC Symbol;Acc:HGNC:34410]	protein coding	1.89	2.02	0.12	NS/+		
ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	protein coding	-2.14	-2.03	0.11	-/-		
ENSG00000171243	SOSTDC1	sclerostin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21748]	protein coding	-3.44	-3.34	0.11	-/-		
ENSG00000080819	CPOX	coproporphyrinogen oxidase [Source:HGNC Symbol;Acc:HGNC:2321]	protein coding	-2.05	-1.95	0.10	-/NS		
ENSG00000165376	CLDN2	claudin 2 [Source:HGNC Symbol;Acc:HGNC:2041]	protein coding	-3.58	-3.48	0.10	-/-		
ENSG00000164850	GPER1	G protein-coupled estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:4485]	protein coding	-2.27	-2.16	0.10	-/-		
ENSG00000104290	FZD3	frizzled class receptor 3 [Source:HGNC Symbol;Acc:HGNC:4041]	protein coding	-2.32	-2.23	0.09	-/-		
ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	protein coding	2.33	2.41	0.08	+/+		
ENSG00000130066	SAT1	spermidine/spermine N1-acetyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10540]	protein coding	1.94	2.00	0.07	NS/+		
ENSG00000267391	MIR122HG	MIR122 host gene [Source:HGNC Symbol;Acc:HGNC:53821]	lincRNA	-2.65	-2.59	0.06	-/-		
ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	protein coding	2.28	2.33	0.05	+/+		
ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]	protein coding	2.15	2.19	0.05	+/+		
ENSG00000178297	TMPRSS9	transmembrane serine protease 9 [Source:HGNC Symbol;Acc:HGNC:30079]	protein coding	2.47	2.51	0.05	+/+		
ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	protein coding	2.66	2.70	0.04	+/+		
ENSG00000099953	MMP11	matrix metallopeptidase 11 [Source:HGNC Symbol;Acc:HGNC:7157]	protein coding	-2.03	-2.00	0.03	-/NS		
ENSG00000126775	ATG14	autophagy related 14 [Source:HGNC Symbol;Acc:HGNC:19962]	protein coding	2.02	2.05	0.03	+/+		
ENSG00000092068	SLC7A8	solute carrier family 7 member 8 [Source:HGNC Symbol;Acc:HGNC:11066]	protein coding	-2.23	-2.20	0.03	-/-		
ENSG00000196743	GM2A	GM2 ganglioside activator [Source:HGNC Symbol;Acc:HGNC:4367]	protein coding	-2.71	-2.68	0.03	-/-		
ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]	protein coding	2.12	2.14	0.02	+/+		
ENSG00000068028	RASSF1	Ras association domain family member 1 [Source:HGNC Symbol;Acc:HGNC:9882]	protein coding	2.17	2.18	0.01	+/+		
ENSG00000101298	SNPH	syntaphilin [Source:HGNC Symbol;Acc:HGNC:15931]	protein coding	3.25	3.26	0.01	+/NS		
ENSG00000256128	LINC00944	long intergenic non-protein coding RNA 944 [Source:HGNC Symbol;Acc:HGNC:48640]	lincRNA	4.50	4.49	-0.02	+/+		
ENSG00000130787	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:HGNC:18415]	protein coding	3.02	3.00	-0.02	+/+		
ENSG00000183963	SMTN	smoothelin [Source:HGNC Symbol;Acc:HGNC:11126]	protein coding	2.05	2.03	-0.02	+/+		

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ENSG00000158062	UBXN11	UBX domain protein 11 [Source:HGNC Symbol;Acc:HGNC:30600]	protein coding	2.23	2.21	-0.02	+/NS		
ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	protein coding	2.17	2.14	-0.03	+/+		
ENSG00000256162	SMLR1	small leucine rich protein 1 [Source:HGNC Symbol;Acc:HGNC:44670]	protein coding	-2.61	-2.64	-0.03	-/-		
ENSG0000010810	FYN	FYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4037]	protein coding	-2.70	-2.74	-0.04	-/-		
ENSG00000170439	METTL7B	methyltransferase like 7B [Source:HGNC Symbol;Acc:HGNC:28276]	protein coding	-2.73	-2.77	-0.04	-/-		
ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	protein coding	6.45	6.41	-0.05	+/+		
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	protein coding	4.19	4.13	-0.06	+/+		
ENSG00000138642	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:HGNC:26072]	protein coding	3.55	3.49	-0.06	+/+		
ENSG00000064115	TM7SF3	transmembrane 7 superfamily member 3 [Source:HGNC Symbol;Acc:HGNC:23049]	protein coding	-1.98	-2.04	-0.07	NS/-		
ENSG00000148123	PLPPR1	phospholipid phosphatase related 1 [Source:HGNC Symbol;Acc:HGNC:25993]	protein coding	-6.17	-6.24	-0.07	-/-		
ENSG00000198718	TOGARAM1	TOG array regulator of axonemal microtubules 1 [Source:HGNC Symbol;Acc:HGNC:19959]	protein coding	2.26	2.18	-0.07	+/NS		
ENSG00000074935	TUBE1	tubulin epsilon 1 [Source:HGNC Symbol;Acc:HGNC:20775]	protein coding	2.15	2.08	-0.08	+/+		
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	protein coding	8.22	8.13	-0.08	+/+		
ENSG00000187801	ZFP69B	ZFP69 zinc finger protein B [Source:HGNC Symbol;Acc:HGNC:28053]	protein coding	2.11	2.03	-0.08	+/NS		
ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	protein coding	6.39	6.30	-0.09	+/+		
ENSG00000112818	MEP1A	meprin A subunit alpha [Source:HGNC Symbol;Acc:HGNC:7015]	protein coding	-2.37	-2.45	-0.09	-/-		
ENSG00000157087	ATP2B2	ATPase plasma membrane Ca2+ transporting 2 [Source:HGNC Symbol;Acc:HGNC:815]	protein coding	-2.30	-2.40	-0.09	-/-		
ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	protein coding	2.60	2.50	-0.10	+/+		
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	protein coding	4.25	4.15	-0.10	+/+		
ENSG00000196428	TSC22D2	TSC22 domain family member 2 [Source:HGNC Symbol;Acc:HGNC:29095]	protein coding	2.15	2.04	-0.10	+/+		
ENSG00000144655	CSRNP1	cysteine and serine rich nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:14300]	protein coding	2.61	2.50	-0.11	+/+		
ENSG00000106688	SLC1A1	solute carrier family 1 member 1 [Source:HGNC Symbol;Acc:HGNC:10939]	protein coding	-1.98	-2.09	-0.11	NS/-		
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	protein coding	4.58	4.45	-0.13	+/+		

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ENSG00000165684	SNAPC4	small nuclear RNA activating complex polypeptide 4 [Source:HGNC Symbol;Acc:HGNC:11137]	protein coding	3.14	3.02	-0.13	+/-		
ENSG00000133321	RARRES3	retinoic acid receptor responder 3 [Source:HGNC Symbol;Acc:HGNC:9869]	protein coding	4.68	4.54	-0.13	+/-		
ENSG00000149573	MPZL2	myelin protein zero like 2 [Source:HGNC Symbol;Acc:HGNC:3496]	protein coding	-2.10	-2.24	-0.13	-/-		
ENSG00000180592	SKIDA1	SKI/DACH domain containing 1 [Source:HGNC Symbol;Acc:HGNC:32697]	protein coding	-2.27	-2.41	-0.14	NS/-		
ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	protein coding	2.55	2.42	-0.14	+/-		
ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]	protein coding	-2.09	-2.24	-0.15	-/-		
ENSG00000133106	EPSTI1	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]	protein coding	3.89	3.74	-0.15	+/-		
ENSG00000125247	TMTC4	transmembrane and tetratricopeptide repeat containing 4 [Source:HGNC Symbol;Acc:HGNC:25904]	protein coding	-2.02	-2.17	-0.15	-/NS		
ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]	protein coding	-1.92	-2.08	-0.16	NS/-		
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	protein coding	4.19	4.03	-0.16	+/-		
ENSG00000111319	SCNN1A	sodium channel epithelial 1 alpha subunit [Source:HGNC Symbol;Acc:HGNC:10599]	protein coding	-2.69	-2.86	-0.17	-/-		
ENSG00000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]	protein coding	2.30	2.12	-0.18	+/-		
ENSG00000197019	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:17932]	protein coding	2.64	2.46	-0.18	+/-		
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	protein coding	3.71	3.53	-0.18	+/-		
ENSG00000187097	ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5 [Source:HGNC Symbol;Acc:HGNC:3367]	protein coding	-2.05	-2.23	-0.19	-/-		
ENSG00000115884	SDC1	syndecan 1 [Source:HGNC Symbol;Acc:HGNC:10658]	protein coding	-2.09	-2.28	-0.19	-/-		
ENSG00000147408	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:24290]	protein coding	2.18	1.97	-0.21	+/NS		
ENSG00000197696	NMB	neuromedin B [Source:HGNC Symbol;Acc:HGNC:7842]	protein coding	-1.92	-2.14	-0.21	NS/-		
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	protein coding	3.99	3.77	-0.22	+/-		
ENSG00000109084	TMEM97	transmembrane protein 97 [Source:HGNC Symbol;Acc:HGNC:28106]	protein coding	-2.05	-2.26	-0.22	-/-		
ENSG00000110400	NECTIN1	nectin cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:9706]	protein coding	-2.15	-2.38	-0.23	-/-		
ENSG00000101199	ARFGAP1	ADP ribosylation factor GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:15852]	protein coding	2.00	1.77	-0.23	+/NS		
ENSG00000137185	ZSCAN9	zinc finger and SCAN domain containing 9 [Source:HGNC Symbol;Acc:HGNC:12984]	protein coding	2.13	1.89	-0.23	+/NS		

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ENSG00000261701	HPR	haptoglobin-related protein [Source:HGNC Symbol;Acc:HGNC:5156]	protein coding	-3.07	-3.31	-0.24	-/-		
ENSG0000013441	CLK1	CDC like kinase 1 [Source:HGNC Symbol;Acc:HGNC:2068]	protein coding	2.32	2.08	-0.24	+/+		
ENSG00000196092	TMEM14A	transmembrane protein 14A [Source:HGNC Symbol;Acc:HGNC:21076]	protein coding	-2.10	-2.34	-0.24	-/-		
ENSG00000176273	SLC35G1	solute carrier family 35 member G1 [Source:HGNC Symbol;Acc:HGNC:26607]	protein coding	-2.34	-2.58	-0.24	-/-		
ENSG00000163660	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:HGNC:20569]	protein coding	2.92	2.67	-0.24	+/+		
ENSG00000166689	PLEKHA7	pleckstrin homology domain containing A7 [Source:HGNC Symbol;Acc:HGNC:27049]	protein coding	2.87	2.62	-0.25	+/+		
ENSG00000189114	BLOC1S3	biogenesis of lysosomal organelles complex 1 subunit 3 [Source:HGNC Symbol;Acc:HGNC:20914]	protein coding	2.32	2.06	-0.26	+/NS		
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	protein coding	3.74	3.48	-0.27	+/+		
ENSG00000134107	BHLHE40	basic helix-loop-helix family member e40 [Source:HGNC Symbol;Acc:HGNC:1046]	protein coding	3.35	3.08	-0.27	+/+		
ENSG00000172955	ADH6	alcohol dehydrogenase 6 (class V) [Source:HGNC Symbol;Acc:HGNC:255]	protein coding	-2.04	-2.32	-0.28	-/-		
ENSG00000164976	MYORG	myogenesis regulating glycosidase (putative) [Source:HGNC Symbol;Acc:HGNC:19918]	protein coding	-2.50	-2.78	-0.28	-/-		
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	protein coding	-2.76	-3.04	-0.28	-/-		
ENSG00000130513	GDF15	growth differentiation factor 15 [Source:HGNC Symbol;Acc:HGNC:30142]	protein coding	2.26	1.98	-0.28	+/NS		
ENSG00000122644	ARL4A	ADP ribosylation factor like GTPase 4A [Source:HGNC Symbol;Acc:HGNC:695]	protein coding	2.14	1.86	-0.29	+/NS		
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	protein coding	4.52	4.23	-0.30	+/+		
ENSG00000080823	MOK	MOK protein kinase [Source:HGNC Symbol;Acc:HGNC:9833]	protein coding	2.20	1.90	-0.30	+/NS		
ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]	protein coding	-3.07	-3.37	-0.31	-/-		
ENSG00000134215	VAV3	vav guanine nucleotide exchange factor 3 [Source:HGNC Symbol;Acc:HGNC:12659]	protein coding	-2.48	-2.79	-0.31	-/NS		
ENSG00000114771	AADCAC	arylacetamide deacetylase [Source:HGNC Symbol;Acc:HGNC:17]	protein coding	-2.40	-2.70	-0.31	-/-		
ENSG00000187608	ISG15	ISG15 ubiquitin-like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	protein coding	4.53	4.22	-0.31	+/+		
ENSG00000173193	PARP14	poly(ADP-ribose) polymerase family member 14 [Source:HGNC Symbol;Acc:HGNC:29232]	protein coding	2.38	2.07	-0.31	+/+		
ENSG00000156140	ADAMTS3	ADAM metallopeptidase with thrombospondin type 1 motif 3 [Source:HGNC Symbol;Acc:HGNC:219]	protein coding	-2.13	-2.44	-0.31	-/-		
ENSG00000162783	IER5	immediate early response 5 [Source:HGNC Symbol;Acc:HGNC:5393]	protein coding	2.32	2.00	-0.32	+/+		
ENSG00000173852	DPY19L1	dpy-19 like C-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:22205]	protein coding	-1.88	-2.21	-0.33	NS/-		

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ENSG00000198246	SLC29A3	solute carrier family 29 member 3 [Source:HGNC Symbol;Acc:HGNC:23096]	protein coding	-1.96	-2.29	-0.33	-0.33	NS/-	
ENSG00000157131	C8A	complement C8 alpha chain [Source:HGNC Symbol;Acc:HGNC:1352]	protein coding	-1.75	-2.09	-0.33	-0.33	NS/-	
ENSG00000116584	ARHGEF2	Rho/Rac guanine nucleotide exchange factor 2 [Source:HGNC Symbol;Acc:HGNC:682]	protein coding	3.03	2.70	-0.33	-0.33	+/-	
ENSG00000153237	CCDC148	coiled-coil domain containing 148 [Source:HGNC Symbol;Acc:HGNC:25191]	protein coding	2.74	2.40	-0.34	-0.34	+/NS	
ENSG00000164188	RANBP3L	RAN binding protein 3 like [Source:HGNC Symbol;Acc:HGNC:26353]	protein coding	6.02	5.68	-0.34	-0.34	+/-	
ENSG00000164946	FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:HGNC:23399]	protein coding	-2.19	-2.54	-0.36	-0.36	-/-	
ENSG00000140853	NLRK5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	protein coding	5.09	4.74	-0.36	-0.36	+/-	
ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	protein coding	2.32	1.95	-0.37	-0.37	+/NS	
ENSG00000150782	IL18	interleukin 18 [Source:HGNC Symbol;Acc:HGNC:5986]	protein coding	2.26	1.88	-0.37	-0.37	+/NS	
ENSG00000065911	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+-dependent) 2, methenyltetrahydrofolate cyclohydrolase [Source:HGNC Symbol;Acc:HGNC:7434]	protein coding	2.11	1.74	-0.37	-0.37	+/NS	
ENSG00000127957	PMS2P3	PMS1 homolog 2, mismatch repair system component pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:9128]	transcribed unprocessed pseudogene	2.44	2.04	-0.39	-0.39	+/NS	
ENSG00000141682	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:HGNC:9108]	protein coding	5.01	4.61	-0.39	-0.39	+/-	
ENSG00000105967	TFEC	transcription factor EC [Source:HGNC Symbol;Acc:HGNC:11754]	protein coding	-2.13	-2.52	-0.40	-0.40	-/NS	
ENSG00000137094	DNAJB5	DnaJ heat shock protein family (Hsp40) member B5 [Source:HGNC Symbol;Acc:HGNC:14887]	protein coding	3.02	2.62	-0.40	-0.40	+/-	
ENSG00000155760	FZD7	frizzled class receptor 7 [Source:HGNC Symbol;Acc:HGNC:4045]	protein coding	-1.87	-2.27	-0.40	-0.40	NS/-	
ENSG00000115641	FHL2	four and a half LIM domains 2 [Source:HGNC Symbol;Acc:HGNC:3703]	protein coding	2.17	1.77	-0.40	-0.40	+/NS	
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	protein coding	3.87	3.47	-0.40	-0.40	+/-	
ENSG00000163435	ELF3	E74 like ETS transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:3318]	protein coding	2.32	1.91	-0.40	-0.40	+/NS	
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	protein coding	6.23	5.82	-0.41	-0.41	+/-	
ENSG00000134548	SPX	speixin hormone [Source:HGNC Symbol;Acc:HGNC:28139]	protein coding	2.11	1.70	-0.41	-0.41	+/NS	
ENSG00000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]	protein coding	-2.11	-2.52	-0.41	-0.41	-/-	
ENSG00000154803	FLCN	folliculin [Source:HGNC Symbol;Acc:HGNC:27310]	protein coding	2.16	1.75	-0.41	-0.41	+/NS	
ENSG00000121858	TNFSF10	TNF superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:11925]	protein coding	-2.20	-2.62	-0.42	-0.42	-/-	

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ENSG00000141562	NARF	nuclear prelamin A recognition factor [Source:HGNC Symbol;Acc:HGNC:29916]	protein coding	-1.60	-2.02	-0.42	-0.42	NS/-	
ENSG00000163964	PIGX	phosphatidylinositol glycan anchor biosynthesis class X [Source:HGNC Symbol;Acc:HGNC:26046]	protein coding	-1.73	-2.15	-0.42	-0.42	NS/-	
ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	protein coding	2.95	2.53	-0.42	-0.42	+/-	
ENSG00000167981	ZNF597	zinc finger protein 597 [Source:HGNC Symbol;Acc:HGNC:26573]	protein coding	2.15	1.72	-0.43	-0.43	+/NS	
ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]	protein coding	-2.07	-2.51	-0.44	-0.44	-/-	
ENSG00000151834	GABRA2	gamma-aminobutyric acid type A receptor alpha2 subunit [Source:HGNC Symbol;Acc:HGNC:4076]	protein coding	-1.79	-2.23	-0.44	-0.44	NS/-	
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	protein coding	2.50	2.06	-0.44	-0.44	+/-	
ENSG00000141526	SLC16A3	solute carrier family 16 member 3 [Source:HGNC Symbol;Acc:HGNC:10924]	protein coding	-1.98	-2.42	-0.44	-0.44	NS/-	
ENSG00000162391	FAM151A	family with sequence similarity 151 member A [Source:HGNC Symbol;Acc:HGNC:25032]	protein coding	-1.72	-2.17	-0.45	-0.45	NS/-	
ENSG00000188488	SERPINA5	serpin family A member 5 [Source:HGNC Symbol;Acc:HGNC:8723]	protein coding	-1.67	-2.12	-0.45	-0.45	NS/-	
ENSG00000132837	DMGDH	dimethylglycine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24475]	protein coding	-2.16	-2.61	-0.45	-0.45	-/-	
ENSG00000050130	JKAMP	JNK1/MAPK8 associated membrane protein [Source:HGNC Symbol;Acc:HGNC:20184]	protein coding	-1.72	-2.18	-0.46	-0.46	NS/-	
ENSG00000064225	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:18080]	protein coding	-2.48	-2.94	-0.46	-0.46	-/-	
ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	protein coding	2.25	1.78	-0.46	-0.46	+/NS	
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	protein coding	3.84	3.37	-0.47	-0.47	+/-	
ENSG00000150551	LYPD1	LY6/PLAUR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28431]	protein coding	3.14	2.66	-0.47	-0.47	+/-	
ENSG00000201027	RN7SKP107	RNA, 7SK small nuclear pseudogene 107 [Source:HGNC Symbol;Acc:HGNC:45831]	misc RNA	-2.48	-2.95	-0.48	-0.48	-/NS	
ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	protein coding	3.22	2.72	-0.49	-0.49	+/-	
ENSG00000139269	INHBE	inhibin subunit beta E [Source:HGNC Symbol;Acc:HGNC:24029]	protein coding	3.69	3.20	-0.49	-0.49	+/-	
ENSG00000133624	ZNF767P	zinc finger family member 767, pseudogene [Source:HGNC Symbol;Acc:HGNC:21884]	transcribed unprocessed pseudogene	2.05	1.55	-0.50	-0.50	+/NS	
ENSG00000109861	CTSC	cathepsin C [Source:HGNC Symbol;Acc:HGNC:2528]	protein coding	-1.67	-2.17	-0.50	-0.50	NS/-	
ENSG0000005469	CROT	carnitine O-octanoyltransferase [Source:HGNC Symbol;Acc:HGNC:2366]	protein coding	-1.52	-2.03	-0.50	-0.50	NS/-	
ENSG00000139324	TMTC3	transmembrane and tetratricopeptide repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:26899]	protein coding	-1.64	-2.14	-0.51	-0.51	NS/-	

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ENSG00000111266	DUSP16	dual specificity phosphatase 16 [Source:HGNC Symbol;Acc:HGNC:17909]	protein coding	2.21	1.71	-0.51	+/NS	
ENSG00000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]	protein coding	-2.39	-2.89	-0.51	-/-	
ENSG00000055483	USP36	ubiquitin specific peptidase 36 [Source:HGNC Symbol;Acc:HGNC:20062]	protein coding	2.28	1.77	-0.51	+/NS	
ENSG00000186205	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:HGNC:26189]	protein coding	-2.38	-2.89	-0.51	-/-	
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	protein coding	2.32	1.81	-0.51	+/NS	
ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	protein coding	3.01	2.48	-0.52	+/+	
ENSG00000135454	B4GALNT1	beta-1,4-N-acetyl-galactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4117]	protein coding	-1.51	-2.03	-0.53	NS/-	
ENSG0000003436	TFPI	tissue factor pathway inhibitor [Source:HGNC Symbol;Acc:HGNC:11760]	protein coding	-1.69	-2.22	-0.53	NS/-	
ENSG00000159556	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:HGNC:18524]	protein coding	3.94	3.40	-0.54	+/+	
ENSG00000116005	PCYOX1	prenylcysteine oxidase 1 [Source:HGNC Symbol;Acc:HGNC:20588]	protein coding	-2.20	-2.74	-0.54	-/-	
ENSG00000273559	CWC25	CWC25 spliceosome associated protein homolog [Source:HGNC Symbol;Acc:HGNC:25989]	protein coding	2.15	1.61	-0.55	+/NS	
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	protein coding	4.88	4.33	-0.55	+/+	
ENSG00000197006	METTL9	methyltransferase like 9 [Source:HGNC Symbol;Acc:HGNC:24586]	protein coding	-1.46	-2.01	-0.55	NS/-	
ENSG00000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	protein coding	2.23	1.67	-0.55	+/NS	
ENSG00000143815	LBR	lamin B receptor [Source:HGNC Symbol;Acc:HGNC:6518]	protein coding	-1.72	-2.27	-0.56	NS/-	
ENSG00000116199	FAM20B	FAM20B, glycosaminoglycan xylosylkinase [Source:HGNC Symbol;Acc:HGNC:23017]	protein coding	-1.48	-2.04	-0.56	NS/-	
ENSG00000121057	AKAP1	A-kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:367]	protein coding	-1.70	-2.26	-0.56	NS/-	
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	protein coding	-2.88	-3.44	-0.56	-/-	
ENSG00000133636	NTS	neurotensin [Source:HGNC Symbol;Acc:HGNC:8038]	protein coding	-2.11	-2.68	-0.56	-/-	
ENSG00000140105	WARS	tryptophanyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:12729]	protein coding	2.55	1.98	-0.57	+/NS	
ENSG00000079150	FKBP7	FK506 binding protein 7 [Source:HGNC Symbol;Acc:HGNC:3723]	protein coding	-1.84	-2.41	-0.57	NS/-	
ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	protein coding	8.53	7.95	-0.58	+/+	
ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	protein coding	2.91	2.33	-0.59	+/+	
ENSG00000101417	PXMP4	peroxisomal membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15920]	protein coding	-2.07	-2.66	-0.59	-/-	

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ENSG00000137491	SLCO2B1	solute carrier organic anion transporter family member 2B1 [Source:HGNC Symbol;Acc:HGNC:10962]	protein coding	-1.73	-2.32	-0.59	-0.59	NS/-	
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	protein coding	3.87	3.28	-0.59	-0.59	+/+	
ENSG00000148702	HABP2	hyaluronan binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4798]	protein coding	-1.53	-2.12	-0.59	-0.59	NS/-	
ENSG00000171227	TMEM37	transmembrane protein 37 [Source:HGNC Symbol;Acc:HGNC:18216]	protein coding	-1.71	-2.32	-0.60	-0.60	NS/-	
ENSG00000170099	SERPINA6	serpin family A member 6 [Source:HGNC Symbol;Acc:HGNC:1540]	protein coding	-2.59	-3.20	-0.61	-0.61	-/-	
ENSG00000178607	ERN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:HGNC:3449]	protein coding	2.23	1.62	-0.61	-0.61	+/NS	
ENSG00000170545	SMAGP	small cell adhesion glycoprotein [Source:HGNC Symbol;Acc:HGNC:26918]	protein coding	-1.45	-2.07	-0.62	-0.62	NS/-	
ENSG00000122378	PRXL2A	peroxiredoxin like 2A [Source:HGNC Symbol;Acc:HGNC:28651]	protein coding	-1.62	-2.24	-0.62	-0.62	NS/-	
ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	protein coding	2.43	1.81	-0.62	-0.62	+/NS	
ENSG00000172732	MUS81	MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:29814]	protein coding	2.11	1.49	-0.62	-0.62	+/NS	
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	protein coding	3.40	2.77	-0.63	-0.63	+/+	
ENSG00000167711	SERPINF2	serpin family F member 2 [Source:HGNC Symbol;Acc:HGNC:9075]	protein coding	-1.46	-2.09	-0.63	-0.63	NS/-	
ENSG00000164442	CITED2	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 2 [Source:HGNC Symbol;Acc:HGNC:1987]	protein coding	2.24	1.60	-0.63	-0.63	+/NS	
ENSG00000184992	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:HGNC:14251]	protein coding	-2.06	-2.70	-0.63	-0.63	-/-	
ENSG0000006007	GDE1	glycerophosphodiester phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:29644]	protein coding	-1.97	-2.61	-0.64	-0.64	NS/-	
ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]	protein coding	-2.01	-2.64	-0.64	-0.64	-/-	
ENSG00000074410	CA12	carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:1371]	protein coding	-1.93	-2.57	-0.64	-0.64	NS/-	
ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:2646]	protein coding	-1.62	-2.27	-0.64	-0.64	NS/-	
ENSG00000180535	BHLHA15	basic helix-loop-helix family member a15 [Source:HGNC Symbol;Acc:HGNC:22265]	protein coding	4.00	3.35	-0.65	-0.65	+/+	
ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]	protein coding	-2.14	-2.79	-0.65	-0.65	-/-	
ENSG00000230795	HLA-K	major histocompatibility complex, class I, K (pseudo-gene) [Source:HGNC Symbol;Acc:HGNC:4969]	unprocessed pseudogene	4.56	3.90	-0.65	-0.65	+/+	
ENSG00000013588	GPRC5A	G protein-coupled receptor class C group 5 member A [Source:HGNC Symbol;Acc:HGNC:9836]	protein coding	2.03	1.38	-0.65	-0.65	+/NS	
ENSG00000138308	PLA2G12B	phospholipase A2 group XIIB [Source:HGNC Symbol;Acc:HGNC:18555]	protein coding	-2.27	-2.92	-0.65	-0.65	-/-	

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ENSG00000120709	FAM53C	family with sequence similarity 53 member C [Source:HGNC Symbol;Acc:HGNC:1336]	protein coding	2.33	1.67	-0.65	+/NS	
ENSG00000103811	CTSH	cathepsin H [Source:HGNC Symbol;Acc:HGNC:2535]	protein coding	-1.37	-2.03	-0.66	NS/-	
ENSG00000113494	PRLR	prolactin receptor [Source:HGNC Symbol;Acc:HGNC:9446]	protein coding	-2.64	-3.30	-0.66	-/-	
ENSG00000157214	STEAP2	STEAP2 metalloreductase [Source:HGNC Symbol;Acc:HGNC:17885]	protein coding	-2.75	-3.41	-0.66	-/-	
ENSG00000150893	FREM2	FRAS1 related extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:25396]	protein coding	-2.23	-2.89	-0.66	-/-	
ENSG00000165102	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase [Source:HGNC Symbol;Acc:HGNC:26527]	protein coding	-1.34	-2.00	-0.66	NS/-	
ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7733]	protein coding	3.74	3.08	-0.66	+/+	
ENSG00000181218	HIST3H2A	histone cluster 3 H2A [Source:HGNC Symbol;Acc:HGNC:20507]	protein coding	2.33	1.67	-0.67	+/NS	
ENSG00000154511	DIPK1A	divergent protein kinase domain 1A [Source:HGNC Symbol;Acc:HGNC:32213]	protein coding	-1.82	-2.49	-0.67	NS/-	
ENSG0000006459	KDM7A	lysine demethylase 7A [Source:HGNC Symbol;Acc:HGNC:22224]	protein coding	2.31	1.64	-0.67	+/NS	
ENSG00000187546	AGMO	alkylglycerol monooxygenase [Source:HGNC Symbol;Acc:HGNC:33784]	protein coding	-1.55	-2.23	-0.68	NS/-	
ENSG00000173402	DAG1	dystroglycan 1 [Source:HGNC Symbol;Acc:HGNC:2666]	protein coding	-1.70	-2.37	-0.68	NS/-	
ENSG00000068971	PPP2R5B	protein phosphatase 2 regulatory subunit B'beta [Source:HGNC Symbol;Acc:HGNC:9310]	protein coding	2.31	1.64	-0.68	+/NS	
ENSG00000269378		integrin beta 1 pseudogene 1	processed pseudogene	-1.35	-2.04	-0.68	NS/-	
ENSG00000226549	SCDP1	stearoyl-CoA desaturase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:10572]	processed pseudogene	-1.84	-2.52	-0.68	NS/-	
ENSG00000249948	GBA3	glucosylceramidase beta 3 (gene/pseudogene) [Source:HGNC Symbol;Acc:HGNC:19069]	polymorphic pseudogene	-2.10	-2.79	-0.69	NS/-	
ENSG00000090661	CERS4	ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:23747]	protein coding	-1.34	-2.04	-0.70	NS/-	
ENSG00000080618	CPB2	carboxypeptidase B2 [Source:HGNC Symbol;Acc:HGNC:2300]	protein coding	-2.47	-3.17	-0.70	-/-	
ENSG00000121350	PYROXD1	pyridine nucleotide-disulphide oxidoreductase domain 1 [Source:HGNC Symbol;Acc:HGNC:26162]	protein coding	2.06	1.36	-0.70	+/NS	
ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	protein coding	2.30	1.60	-0.71	+/NS	
ENSG00000233588	CYP51A1P2	cytochrome P450 family 51 subfamily A member 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:20251]	processed pseudogene	-1.70	-2.41	-0.71	NS/-	
ENSG00000155090	KLF10	Kruppel like factor 10 [Source:HGNC Symbol;Acc:HGNC:11810]	protein coding	2.71	2.00	-0.71	+/+	

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ENSG00000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	protein coding	2.47	1.76	-0.71	+/NS	
ENSG00000137103	TMEM8B	transmembrane protein 8B [Source:HGNC Symbol;Acc:HGNC:21427]	protein coding	-1.87	-2.59	-0.72	NS/-	
ENSG0000049239	H6PD	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4795]	protein coding	-1.61	-2.33	-0.72	NS/-	
ENSG00000107798	LIPA	lipase A, lysosomal acid type [Source:HGNC Symbol;Acc:HGNC:6617]	protein coding	-1.45	-2.17	-0.72	NS/-	
ENSG00000162614	NEXN	nexinil F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:29557]	protein coding	2.29	1.56	-0.73	+/NS	
ENSG00000117528	ABCD3	ATP binding cassette subfamily D member 3 [Source:HGNC Symbol;Acc:HGNC:67]	protein coding	-1.45	-2.18	-0.74	NS/-	
ENSG00000154451	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:HGNC:19895]	protein coding	8.33	7.59	-0.74	+/+	
ENSG00000134962	KLB	klotho beta [Source:HGNC Symbol;Acc:HGNC:15527]	protein coding	-1.64	-2.38	-0.74	NS/-	
ENSG00000266469 +/NS		novel transcript, antisense to MED1	FBXL20	antisense	2.33	1.59	-0.74	
ENSG00000197635	DPP4	dipeptidyl peptidase 4 [Source:HGNC Symbol;Acc:HGNC:3009]	protein coding	-1.57	-2.31	-0.75	NS/-	
ENSG00000120738	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:HGNC:3238]	protein coding	4.34	3.59	-0.75	+/+	
ENSG00000133935	ERG28	ergosterol biosynthesis 28 homolog [Source:HGNC Symbol;Acc:HGNC:1187]	protein coding	-1.26	-2.01	-0.75	NS/-	
ENSG00000171560	FGA	fibrinogen alpha chain [Source:HGNC Symbol;Acc:HGNC:3661]	protein coding	-1.73	-2.49	-0.76	NS/-	
ENSG00000111885	MAN1A1	mannosidase alpha class 1A member 1 [Source:HGNC Symbol;Acc:HGNC:6821]	protein coding	-1.35	-2.11	-0.76	NS/-	
ENSG00000198951	NAGA	alpha-N-acetylgalactosaminidase [Source:HGNC Symbol;Acc:HGNC:7631]	protein coding	-1.33	-2.09	-0.76	NS/-	
ENSG00000134802	SLC43A3	solute carrier family 43 member 3 [Source:HGNC Symbol;Acc:HGNC:17466]	protein coding	-1.52	-2.28	-0.77	NS/-	
ENSG00000125319	C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:HGNC:28460]	protein coding	2.07	1.31	-0.77	+/NS	
ENSG00000198743	SLC5A3	solute carrier family 5 member 3 [Source:HGNC Symbol;Acc:HGNC:11038]	protein coding	-1.71	-2.48	-0.77	NS/-	
ENSG00000104998	IL27RA	interleukin 27 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:17290]	protein coding	-1.25	-2.02	-0.77	NS/-	
ENSG00000175899	A2M	alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7]	protein coding	-1.47	-2.25	-0.78	NS/-	
ENSG00000176046	NUPR1	nuclear protein 1, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29990]	protein coding	2.44	1.66	-0.78	+/NS	
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	protein coding	4.43	3.64	-0.79	+/+	
ENSG00000170275	CRTAP	cartilage associated protein [Source:HGNC Symbol;Acc:HGNC:2379]	protein coding	-1.43	-2.22	-0.79	NS/-	

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ENSG00000143278	F13B	coagulation factor XIII B chain [Source:HGNC Symbol;Acc:HGNC:3534]	protein coding	-1.63	-2.43	-0.79	NS/-	
ENSG00000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]	protein coding	2.15	1.36	-0.79	+/NS	
ENSG00000163631	ALB	albumin [Source:HGNC Symbol;Acc:HGNC:399]	protein coding	-1.49	-2.29	-0.80	NS/-	
ENSG00000117114	ADGRL2	adhesion G protein-coupled receptor L2 [Source:HGNC Symbol;Acc:HGNC:18582]	protein coding	-2.07	-2.87	-0.80	-/-	
ENSG00000080493	SLC4A4	solute carrier family 4 member 4 [Source:HGNC Symbol;Acc:HGNC:11030]	protein coding	-1.84	-2.64	-0.80	NS/-	
ENSG00000156232	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:HGNC:30493]	protein coding	2.71	1.91	-0.80	+/NS	
ENSG00000164300	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:HGNC:18825]	protein coding	-2.09	-2.90	-0.81	-/-	
ENSG00000163710	PCOLCE2	procollagen C-endopeptidase enhancer 2 [Source:HGNC Symbol;Acc:HGNC:8739]	protein coding	-1.57	-2.38	-0.81	NS/-	
ENSG00000108551	RASD1	ras related dexamethasone induced 1 [Source:HGNC Symbol;Acc:HGNC:15828]	protein coding	3.02	2.21	-0.81	+/+	
ENSG00000151388	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif 12 [Source:HGNC Symbol;Acc:HGNC:14605]	protein coding	-1.57	-2.39	-0.82	NS/-	
ENSG00000166825	ANPEP	alanyl aminopeptidase, membrane [Source:HGNC Symbol;Acc:HGNC:500]	protein coding	-1.35	-2.17	-0.82	NS/-	
ENSG00000149547	EI24	EI24, autophagy associated transmembrane protein [Source:HGNC Symbol;Acc:HGNC:13276]	protein coding	-1.30	-2.12	-0.82	NS/-	
ENSG00000117335	CD46	CD46 molecule [Source:HGNC Symbol;Acc:HGNC:6953]	protein coding	-1.22	-2.04	-0.82	NS/-	
ENSG00000187676	B3GLCT	beta 3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:20207]	protein coding	-1.42	-2.24	-0.82	NS/-	
ENSG00000088035	ALG6	ALG6, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23157]	protein coding	-1.66	-2.48	-0.82	NS/-	
ENSG00000135929	CYP27A1	cytochrome P450 family 27 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2605]	protein coding	-1.77	-2.60	-0.83	NS/-	
ENSG00000197410	DCHS2	dachshous cadherin-related 2 [Source:HGNC Symbol;Acc:HGNC:23111]	protein coding	-1.60	-2.43	-0.83	NS/-	
ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	protein coding	2.71	1.88	-0.83	+/NS	
ENSG00000196517	SLC6A9	solute carrier family 6 member 9 [Source:HGNC Symbol;Acc:HGNC:11056]	protein coding	2.30	1.47	-0.83	+/NS	
ENSG00000100234	TIMP3	TIMP metallopeptidase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:11822]	protein coding	-1.26	-2.10	-0.84	NS/-	
ENSG00000248049	UBA6-AS1	UBA6 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49083]	antisense	2.03	1.19	-0.84	+/NS	
ENSG00000135678	CPM	carboxypeptidase M [Source:HGNC Symbol;Acc:HGNC:2311]	protein coding	-1.58	-2.43	-0.84	NS/-	
ENSG00000131389	SLC6A6	solute carrier family 6 member 6 [Source:HGNC Symbol;Acc:HGNC:11052]	protein coding	-1.66	-2.51	-0.85	NS/-	

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ENSG00000142494	SLC47A1	solute carrier family 47 member 1 [Source:HGNC Symbol;Acc:HGNC:25588]	protein coding	-1.82	-2.67	-0.85	-0.85	NS/-	
ENSG00000166188	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:HGNC:13644]	protein coding	3.37	2.52	-0.85	-0.85	+/-	
ENSG00000184232	OAF	out at first homolog [Source:HGNC Symbol;Acc:HGNC:28752]	protein coding	-1.34	-2.19	-0.85	-0.85	NS/-	
ENSG00000099219	ERMP1	endoplasmic reticulum metallopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:23703]	protein coding	-1.87	-2.72	-0.85	-0.85	NS/-	
ENSG00000091583	APOH	apolipoprotein H [Source:HGNC Symbol;Acc:HGNC:616]	protein coding	-1.53	-2.39	-0.86	-0.86	NS/-	
ENSG00000081051	AFP	alpha fetoprotein [Source:HGNC Symbol;Acc:HGNC:317]	protein coding	-2.17	-3.03	-0.86	-0.86	-/-	
ENSG00000136826	KLF4	Kruppel like factor 4 [Source:HGNC Symbol;Acc:HGNC:6348]	protein coding	5.23	4.36	-0.86	-0.86	+/-	
ENSG0000073060	SCARB1	scavenger receptor class B member 1 [Source:HGNC Symbol;Acc:HGNC:1664]	protein coding	-1.18	-2.04	-0.86	-0.86	NS/-	
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	protein coding	3.94	3.08	-0.86	-0.86	+/-	
ENSG00000173905	GOLIM4	golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15448]	protein coding	-1.33	-2.20	-0.87	-0.87	NS/-	
ENSG00000052802	MSMO1	methylsterol monooxygenase 1 [Source:HGNC Symbol;Acc:HGNC:10545]	protein coding	-2.13	-3.00	-0.87	-0.87	-/-	
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	protein coding	8.16	7.29	-0.87	-0.87	+/-	
ENSG0000039068	CDH1	cadherin 1 [Source:HGNC Symbol;Acc:HGNC:1748]	protein coding	-1.41	-2.29	-0.87	-0.87	NS/-	
ENSG00000109321	AREG	amphiregulin [Source:HGNC Symbol;Acc:HGNC:651]	protein coding	5.88	5.00	-0.88	-0.88	+/-	
ENSG00000151715	TMEM45B	transmembrane protein 45B [Source:HGNC Symbol;Acc:HGNC:25194]	protein coding	-1.31	-2.20	-0.88	-0.88	NS/-	
ENSG00000169562	GJB1	gap junction protein beta 1 [Source:HGNC Symbol;Acc:HGNC:4283]	protein coding	-2.18	-3.07	-0.89	-0.89	-/-	
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	protein coding	-1.26	-2.15	-0.89	-0.89	NS/-	
ENSG00000158457	TSPAN33	tetraspanin 33 [Source:HGNC Symbol;Acc:HGNC:28743]	protein coding	-1.86	-2.75	-0.89	-0.89	NS/-	
ENSG00000144320	LNPK	lunapark, ER junction formation factor [Source:HGNC Symbol;Acc:HGNC:21610]	protein coding	-1.17	-2.07	-0.89	-0.89	NS/-	
ENSG00000119927	GPAM	glycerol-3-phosphate acyltransferase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:24865]	protein coding	-1.61	-2.51	-0.90	-0.90	NS/-	
ENSG00000011105	TSPAN9	tetraspanin 9 [Source:HGNC Symbol;Acc:HGNC:21640]	protein coding	-1.18	-2.08	-0.90	-0.90	NS/-	
ENSG00000156471	PTDSS1	phosphatidylserine synthase 1 [Source:HGNC Symbol;Acc:HGNC:9587]	protein coding	-1.21	-2.11	-0.90	-0.90	NS/-	
ENSG00000167123	CERCAM	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	protein coding	-1.24	-2.14	-0.90	-0.90	NS/-	
ENSG00000168509	HJV	hemojuvelin BMP co-receptor [Source:HGNC Symbol;Acc:HGNC:4887]	protein coding	-1.55	-2.45	-0.90	-0.90	NS/-	
ENSG00000156162	DPY19L4	dpy-19 like 4 [Source:HGNC Symbol;Acc:HGNC:27829]	protein coding	-1.45	-2.36	-0.91	-0.91	NS/-	

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ENSG00000105854	PON2	paraoxonase 2 [Source:HGNC Symbol;Acc:HGNC:9205]	Sym-	protein coding	-1.57	-2.48	-0.91	NS/-			
ENSG00000111684	LPCAT3	lysophosphatidylcholine acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:30244]	Sym-	protein coding	-1.22	-2.13	-0.91	NS/-			
ENSG00000159346	ADIPOR1	adiponectin receptor 1 [Source:HGNC Symbol;Acc:HGNC:24040]	Sym-	protein coding	-1.28	-2.19	-0.91	NS/-			
ENSG00000147155	EBP	EBP, cholestenol delta-isomerase [Source:HGNC Symbol;Acc:HGNC:3133]	Sym-	protein coding	-1.49	-2.41	-0.91	NS/-			
ENSG00000165030	NFIL3	nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:HGNC:7787]	Sym-	protein coding	2.05	1.13	-0.92	+/NS			
ENSG00000072042	RDH11	retinol dehydrogenase 11 [Source:HGNC Symbol;Acc:HGNC:17964]	Sym-	protein coding	-1.12	-2.04	-0.92	NS/-			
ENSG00000204344	STK19	serine/threonine kinase 19 [Source:HGNC Symbol;Acc:HGNC:11398]	Sym-	protein coding	2.15	1.23	-0.92	+/NS			
ENSG00000070018	LRP6	LDL receptor related protein 6 [Source:HGNC Symbol;Acc:HGNC:6698]	Sym-	protein coding	-1.44	-2.36	-0.92	NS/-			
ENSG00000105976	MET	MET proto-oncogene, receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:7029]	Sym-	protein coding	-1.27	-2.19	-0.92	NS/-			
ENSG00000104341	LAPTM4B	lysosomal protein transmembrane 4 beta [Source:HGNC Symbol;Acc:HGNC:13646]	Sym-	protein coding	-1.23	-2.16	-0.93	NS/-			
ENSG00000109320	NFKB1	nuclear factor kappa B subunit 1 [Source:HGNC Symbol;Acc:HGNC:7794]	Sym-	protein coding	2.36	1.43	-0.93	+/NS			
ENSG00000145217	SLC26A1	solute carrier family 26 member 1 [Source:HGNC Symbol;Acc:HGNC:10993]	Sym-	protein coding	-1.39	-2.32	-0.93	NS/-			
ENSG00000143153	ATP1B1	ATPase Na+/K+ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]	Sym-	protein coding	-1.41	-2.34	-0.93	NS/-			
ENSG00000085871	MGST2	microsomal glutathione S-transferase 2 [Source:HGNC Symbol;Acc:HGNC:7063]	Sym-	protein coding	-1.32	-2.25	-0.93	NS/-			
ENSG00000107864	CPEB3	cytoplasmic polyadenylation element binding protein 3 [Source:HGNC Symbol;Acc:HGNC:21746]	Sym-	protein coding	2.41	1.48	-0.93	+/NS			
ENSG00000223658	C1GALT1C1L	C1GALT1 specific chaperone 1 like [Source:HGNC Symbol;Acc:HGNC:51617]	Sym-	protein coding	-1.97	-2.90	-0.93	NS/-			
ENSG00000113407	TARS	threonyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:11572]	Sym-	protein coding	2.09	1.16	-0.93	+/NS			
ENSG00000171365	CLCN5	chloride voltage-gated channel 5 [Source:HGNC Symbol;Acc:HGNC:2023]	Sym-	protein coding	-1.39	-2.33	-0.94	NS/-			
ENSG00000205403	CFI	complement factor I [Source:HGNC Symbol;Acc:HGNC:5394]	Sym-	protein coding	-1.18	-2.12	-0.94	NS/-			
ENSG00000253846	PCDHGA10	protocadherin gamma subfamily A, 10 [Source:HGNC Symbol;Acc:HGNC:8697]	Sym-	protein coding	-2.14	-3.08	-0.94	-/-			
ENSG00000143434	SEMA6C	semaphorin 6C [Source:HGNC Symbol;Acc:HGNC:10740]	Sym-	protein coding	-1.65	-2.60	-0.95	NS/-			
ENSG0000005471	ABCB4	ATP binding cassette subfamily B member 4 [Source:HGNC Symbol;Acc:HGNC:45]	Sym-	protein coding	-1.28	-2.23	-0.95	NS/-			
ENSG00000169814	BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]	Sym-	protein coding	-1.84	-2.79	-0.95	NS/-			
ENSG00000116704	SLC35D1	solute carrier family 35 member D1 [Source:HGNC Symbol;Acc:HGNC:20800]	Sym-	protein coding	-1.79	-2.74	-0.95	NS/-			

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ENSG00000163293	NIPAL1	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]	protein coding	-1.79	-2.75	-0.96	-0.96	NS/-	
ENSG00000110245	APOC3	apolipoprotein C3 [Source:HGNC Symbol;Acc:HGNC:610]	protein coding	-1.30	-2.26	-0.96	-0.96	NS/-	
ENSG00000162694	EXTL2	exostosin like glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3516]	protein coding	-1.45	-2.41	-0.96	-0.96	NS/-	
ENSG00000136997	MYC	MYC proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7553]	protein coding	2.73	1.76	-0.96	-0.96	+/NS	
ENSG00000089057	SLC23A2	solute carrier family 23 member 2 [Source:HGNC Symbol;Acc:HGNC:10973]	protein coding	-1.18	-2.15	-0.97	-0.97	NS/-	
ENSG00000073849	ST6GAL1	ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10860]	protein coding	-1.98	-2.95	-0.97	-0.97	NS/-	
ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	protein coding	2.57	1.59	-0.98	-0.98	+/NS	
ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]	protein coding	-1.19	-2.18	-0.98	-0.98	NS/-	
ENSG00000142871	CYR61	cysteine rich angiogenic inducer 61 [Source:HGNC Symbol;Acc:HGNC:2654]	protein coding	4.02	3.02	-0.99	-0.99	+/+	
ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	protein coding	3.03	2.03	-0.99	-0.99	+/+	
ENSG00000148204	CRB2	crumbs 2, cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:18688]	protein coding	-1.51	-2.51	-0.99	-0.99	NS/-	
ENSG00000258890	CEP95	centrosomal protein 95 [Source:HGNC Symbol;Acc:HGNC:25141]	protein coding	2.18	1.19	-0.99	-0.99	+/NS	
ENSG00000088386	SLC15A1	solute carrier family 15 member 1 [Source:HGNC Symbol;Acc:HGNC:10920]	protein coding	-1.87	-2.87	-0.99	-0.99	NS/-	
ENSG00000104957	CCDC130	coiled-coil domain containing 130 [Source:HGNC Symbol;Acc:HGNC:28118]	protein coding	2.34	1.34	-1.00	-1.00	+/NS	
ENSG00000205213	LGR4	leucine rich repeat containing G protein-coupled receptor 4 [Source:HGNC Symbol;Acc:HGNC:13299]	protein coding	-1.71	-2.71	-1.00	-1.00	NS/-	
ENSG00000114638	UPK1B	uroplakin 1B [Source:HGNC Symbol;Acc:HGNC:12578]	protein coding	-1.72	-2.72	-1.00	-1.00	NS/-	
ENSG00000069849	ATP1B3	ATPase Na+/K+ transporting subunit beta 3 [Source:HGNC Symbol;Acc:HGNC:806]	protein coding	-1.01	-2.01	-1.01	-1.01	NS/-	
ENSG00000102934	PLLP	plasmolipin [Source:HGNC Symbol;Acc:HGNC:18553]	protein coding	-2.23	-3.24	-1.01	-1.01	-/-	
ENSG00000074696	HACD3	3-hydroxyacyl-CoA dehydratase 3 [Source:HGNC Symbol;Acc:HGNC:24175]	protein coding	-1.26	-2.28	-1.01	-1.01	NS/-	
ENSG00000179163	FUCA1	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	protein coding	-1.13	-2.15	-1.02	-1.02	NS/-	
ENSG00000198075	SULT1C4	sulfotransferase family 1C member 4 [Source:HGNC Symbol;Acc:HGNC:11457]	protein coding	2.32	1.30	-1.02	-1.02	+/NS	
ENSG00000123595	RAB9A	RAB9A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9792]	protein coding	2.22	1.19	-1.02	-1.02	+/NS	
ENSG00000136068	FLNB	filamin B [Source:HGNC Symbol;Acc:HGNC:3755]	protein coding	2.11	1.08	-1.03	-1.03	+/NS	
ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]	protein coding	-2.15	-3.18	-1.03	-1.03	-/-	

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ENSG00000164291	ARSK	arylsulfatase family member K [Source:HGNC Symbol;Acc:HGNC:25239]	protein coding	-1.10	-2.13	-1.03	-1.03	NS/-	
ENSG00000185000	DGAT1	diacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2843]	protein coding	-1.03	-2.06	-1.03	-1.03	NS/-	
ENSG00000176473	WDR25	WD repeat domain 25 [Source:HGNC Symbol;Acc:HGNC:21064]	protein coding	2.55	1.52	-1.03	-1.03	+/NS	
ENSG00000135776	ABCB10	ATP binding cassette subfamily B member 10 [Source:HGNC Symbol;Acc:HGNC:41]	protein coding	-1.14	-2.17	-1.03	-1.03	NS/-	
ENSG00000180694	TMEM64	transmembrane protein 64 [Source:HGNC Symbol;Acc:HGNC:25441]	protein coding	-1.82	-2.85	-1.03	-1.03	NS/-	
ENSG00000111846	GCNT2	glucosaminyl (N-acetyl) transferase 2 (I blood group) [Source:HGNC Symbol;Acc:HGNC:4204]	protein coding	-0.99	-2.02	-1.03	-1.03	NS/-	
ENSG00000113492	AGXT2	alanine-glyoxylate aminotransferase 2 [Source:HGNC Symbol;Acc:HGNC:14412]	protein coding	-1.89	-2.92	-1.03	-1.03	NS/-	
ENSG00000091513	TF	transferrin [Source:HGNC Symbol;Acc:HGNC:11740]	protein coding	-1.44	-2.47	-1.03	-1.03	NS/-	
ENSG00000083857	FAT1	FAT atypical cadherin 1 [Source:HGNC Symbol;Acc:HGNC:3595]	protein coding	-1.45	-2.48	-1.03	-1.03	NS/-	
ENSG00000185467	KPNA7	karyopherin subunit alpha 7 [Source:HGNC Symbol;Acc:HGNC:21839]	protein coding	2.20	1.17	-1.03	-1.03	+/NS	
ENSG00000240023		ribosomal protein, large, P0 (RPLP0) pseudogene	processed pseudogene	-3.42	-4.46	-1.04	-1.04	-/NS	
ENSG00000120370	GORAB	golgin, RAB6 interacting [Source:HGNC Symbol;Acc:HGNC:25676]	protein coding	2.65	1.61	-1.04	-1.04	+/NS	
ENSG00000096968	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:HGNC:6192]	protein coding	2.64	1.60	-1.04	-1.04	+/NS	
ENSG00000183586	HMGN3P1	high mobility group nucleosomal binding domain 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39206]	processed pseudogene	-0.96	-2.00	-1.04	-1.04	NS/-	
ENSG00000107984	DKK1	dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:2891]	protein coding	-1.65	-2.69	-1.05	-1.05	NS/-	
ENSG00000180745	CLRN3	clarin 3 [Source:HGNC Symbol;Acc:HGNC:20795]	protein coding	-2.75	-3.79	-1.05	-1.05	-/-	
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	protein coding	3.74	2.69	-1.05	-1.05	+/+	
ENSG00000070214	SLC44A1	solute carrier family 44 member 1 [Source:HGNC Symbol;Acc:HGNC:18798]	protein coding	-1.81	-2.86	-1.05	-1.05	NS/-	
ENSG00000115525	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:10872]	protein coding	-1.39	-2.44	-1.05	-1.05	NS/-	
ENSG00000104856	RELB	RELB proto-oncogene, NF- κ B subunit [Source:HGNC Symbol;Acc:HGNC:9956]	protein coding	4.71	3.66	-1.06	-1.06	+/+	
ENSG00000145882	PCYOX1L	prenylcysteine oxidase 1 like [Source:HGNC Symbol;Acc:HGNC:28477]	protein coding	-1.45	-2.50	-1.06	-1.06	NS/-	
ENSG00000197965	MPZL1	myelin protein zero like 1 [Source:HGNC Symbol;Acc:HGNC:7226]	protein coding	-1.03	-2.09	-1.06	-1.06	NS/-	
ENSG00000187824	TMEM220	transmembrane protein 220 [Source:HGNC Symbol;Acc:HGNC:33757]	protein coding	-1.10	-2.16	-1.06	-1.06	NS/-	
ENSG00000180776	ZDHHC20	zinc finger DHHC-type containing 20 [Source:HGNC Symbol;Acc:HGNC:20749]	protein coding	-1.15	-2.22	-1.07	-1.07	NS/-	

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ENSG00000129636	ITFG1	integrin alpha FG-GAP repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:30697]	protein coding	-1.20	-2.27	-1.07	-1.07	NS/-	
ENSG00000122861	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:HGNC:9052]	protein coding	-2.34	-3.41	-1.07	-1.07	-/-	
ENSG000000000003	TSPAN6	tetraspanin 6 [Source:HGNC Symbol;Acc:HGNC:11858]	protein coding	-1.32	-2.38	-1.07	-1.07	NS/-	
ENSG00000087111	PIGS	phosphatidylinositol glycan anchor biosynthesis class S [Source:HGNC Symbol;Acc:HGNC:14937]	protein coding	-1.20	-2.27	-1.07	-1.07	NS/-	
ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	protein coding	2.28	1.21	-1.07	-1.07	+/NS	
ENSG00000149177	PTPRJ	protein tyrosine phosphatase, receptor type J [Source:HGNC Symbol;Acc:HGNC:9673]	protein coding	-1.24	-2.31	-1.07	-1.07	NS/-	
ENSG00000112893	MAN2A1	mannosidase alpha class 2A member 1 [Source:HGNC Symbol;Acc:HGNC:6824]	protein coding	-1.23	-2.31	-1.08	-1.08	NS/-	
ENSG00000168386	FILIP1L	filamin A interacting protein 1 like [Source:HGNC Symbol;Acc:HGNC:24589]	protein coding	2.64	1.56	-1.08	-1.08	+/NS	
ENSG00000117601	SERPINC1	serpin family C member 1 [Source:HGNC Symbol;Acc:HGNC:775]	protein coding	-1.29	-2.37	-1.08	-1.08	NS/-	
ENSG00000148356	LRSAM1	leucine rich repeat and sterile alpha motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25135]	protein coding	2.39	1.31	-1.08	-1.08	+/NS	
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	protein coding	3.70	2.62	-1.08	-1.08	+/+	
ENSG00000117151	CTBS	chitobiase [Source:HGNC Symbol;Acc:HGNC:2496]	protein coding	-1.55	-2.64	-1.08	-1.08	NS/-	
ENSG00000184307	ZDHHC23	zinc finger DHHC-type containing 23 [Source:HGNC Symbol;Acc:HGNC:28654]	protein coding	-0.98	-2.06	-1.09	-1.09	NS/-	
ENSG00000123838	C4BPA	complement component 4 binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1325]	protein coding	-1.25	-2.34	-1.09	-1.09	NS/-	
ENSG00000106823	ECM2	extracellular matrix protein 2 [Source:HGNC Symbol;Acc:HGNC:3154]	protein coding	-1.10	-2.19	-1.09	-1.09	NS/-	
ENSG00000122884	P4HA1	prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:8546]	protein coding	-1.85	-2.94	-1.09	-1.09	NS/-	
ENSG00000104723	TUSC3	tumor suppressor candidate 3 [Source:HGNC Symbol;Acc:HGNC:30242]	protein coding	-1.07	-2.16	-1.09	-1.09	NS/-	
ENSG00000251432	LINC02615	long intergenic non-protein coding RNA 2615 [Source:HGNC Symbol;Acc:HGNC:53402]	lincRNA	3.51	2.41	-1.10	-1.10	+/NS	
ENSG00000124508	BTN2A2	butyrophilin subfamily 2 member A2 [Source:HGNC Symbol;Acc:HGNC:1137]	protein coding	2.46	1.36	-1.10	-1.10	+/NS	
ENSG00000065361	ERBB3	erb-b2 receptor tyrosine kinase 3 [Source:HGNC Symbol;Acc:HGNC:3431]	protein coding	-1.90	-3.00	-1.10	-1.10	NS/-	
ENSG00000188338	SLC38A3	solute carrier family 38 member 3 [Source:HGNC Symbol;Acc:HGNC:18044]	protein coding	-1.88	-2.99	-1.11	-1.11	NS/-	
ENSG00000213859	KCTD11	potassium channel tetramerization domain containing 11 [Source:HGNC Symbol;Acc:HGNC:21302]	protein coding	3.26	2.15	-1.11	-1.11	+/NS	
ENSG00000259078	PTBP1P	poly(pyrimidine tract binding protein 1 pseudogene [Source:HGNC Symbol;Acc:HGNC:20030]	processed pseudogene	2.15	1.04	-1.11	-1.11	+/NS	
ENSG00000175283	DOLK	dolichol kinase [Source:HGNC Symbol;Acc:HGNC:23406]	protein coding	-1.23	-2.34	-1.11	-1.11	NS/-	

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ENSG00000100665	SERPINA4	serpin family A member 4 [Source:HGNC Symbol;Acc:HGNC:8948]	protein coding	-1.92	-3.03	-1.11	NS/-	
ENSG00000101974	ATP11C	ATPase phospholipid transporting 11C [Source:HGNC Symbol;Acc:HGNC:13554]	protein coding	-1.70	-2.81	-1.11	NS/-	
ENSG00000152689	RASGRP3	RAS guanyl releasing protein 3 [Source:HGNC Symbol;Acc:HGNC:14545]	protein coding	2.02	0.90	-1.12	+/NS	
ENSG00000111666	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:HGNC:17852]	protein coding	-2.07	-3.19	-1.12	-/-	
ENSG00000056736	IL17RB	interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:18015]	protein coding	-1.62	-2.75	-1.12	NS/-	
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	protein coding	4.12	2.99	-1.13	+/+	
ENSG00000107789	MINPP1	multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:7102]	protein coding	-1.25	-2.38	-1.13	NS/-	
ENSG00000088812	ATRN	attractin [Source:HGNC Symbol;Acc:HGNC:885]	protein coding	-1.05	-2.18	-1.14	NS/-	
ENSG00000160446	ZDHHC12	zinc finger DHHC-type containing 12 [Source:HGNC Symbol;Acc:HGNC:19159]	protein coding	-1.50	-2.64	-1.14	NS/-	
ENSG00000100564	PIGH	phosphatidylinositol glycan anchor biosynthesis class H [Source:HGNC Symbol;Acc:HGNC:8964]	protein coding	-1.14	-2.28	-1.14	NS/-	
ENSG00000137563	GGH	gamma-glutamyl hydrolase [Source:HGNC Symbol;Acc:HGNC:4248]	protein coding	-1.11	-2.25	-1.14	NS/-	
ENSG00000108582	CPD	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]	protein coding	-1.40	-2.55	-1.14	NS/-	
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	protein coding	4.85	3.70	-1.15	+/+	
ENSG00000176209	SMIM19	small integral membrane protein 19 [Source:HGNC Symbol;Acc:HGNC:25166]	protein coding	-1.11	-2.26	-1.15	NS/-	
ENSG00000058668	ATP2B4	ATPase plasma membrane Ca2+ transporting 4 [Source:HGNC Symbol;Acc:HGNC:817]	protein coding	-1.72	-2.87	-1.15	NS/-	
ENSG00000139055	ERP27	endoplasmic reticulum protein 27 [Source:HGNC Symbol;Acc:HGNC:26495]	protein coding	-1.19	-2.34	-1.15	NS/-	
ENSG00000112394	SLC16A10	solute carrier family 16 member 10 [Source:HGNC Symbol;Acc:HGNC:17027]	protein coding	-2.09	-3.24	-1.16	-/-	
ENSG00000185475	TMEM179B	transmembrane protein 179B [Source:HGNC Symbol;Acc:HGNC:33744]	protein coding	-0.98	-2.14	-1.16	NS/-	
ENSG00000213569		general transcription factor IIIC, polypeptide 6, alpha 35kDa (GTF3C6) pseudogene	processed pseudogene	-1.04	-2.20	-1.16	NS/-	
ENSG00000100473	COCH	cochl [Source:HGNC Symbol;Acc:HGNC:2180]	protein coding	-1.20	-2.36	-1.16	NS/-	
ENSG00000138798	EGF	epidermal growth factor [Source:HGNC Symbol;Acc:HGNC:3229]	protein coding	-1.17	-2.33	-1.16	NS/-	
ENSG00000163482	STK36	serine/threonine kinase 36 [Source:HGNC Symbol;Acc:HGNC:17209]	protein coding	2.07	0.90	-1.17	+/NS	
ENSG00000138744	NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:HGNC:736]	protein coding	-1.52	-2.69	-1.17	NS/-	
ENSG00000128298	BAIAP2L2	BAI1 associated protein 2 like 2 [Source:HGNC Symbol;Acc:HGNC:26203]	protein coding	3.64	2.46	-1.17	+/+	

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ENSG00000130876	SLC7A10	solute carrier family 7 member 10 [Source:HGNC Symbol;Acc:HGNC:11058]	protein coding	-2.81	-3.98	-1.17	NS/-	
ENSG00000214050	FBXO16	F-box protein 16 [Source:HGNC Symbol;Acc:HGNC:13618]	protein coding	3.22	2.05	-1.18	+/NS	
ENSG00000229644	NAMPTP1	nicotinamide phosphoribosyltransferase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:17633]	processed pseudogene	2.09	0.91	-1.18	+/NS	
ENSG00000137501	SYTL2	synaptotagmin like 2 [Source:HGNC Symbol;Acc:HGNC:15585]	protein coding	2.03	0.85	-1.18	+/NS	
ENSG00000135220	UGT2A3	UDP glucuronosyltransferase family 2 member A3 [Source:HGNC Symbol;Acc:HGNC:28528]	protein coding	-1.59	-2.77	-1.18	NS/-	
ENSG00000180758	GPR157	G protein-coupled receptor 157 [Source:HGNC Symbol;Acc:HGNC:23687]	protein coding	-1.75	-2.93	-1.18	NS/-	
ENSG00000111670	GNPTAB	N-acetylglucosamine-1-phosphate transferase subunits alpha and beta [Source:HGNC Symbol;Acc:HGNC:29670]	protein coding	-1.09	-2.27	-1.18	NS/-	
ENSG00000142675	CNKS1R1	connector enhancer of kinase suppressor of Ras 1 [Source:HGNC Symbol;Acc:HGNC:19700]	protein coding	2.44	1.26	-1.18	+/NS	
ENSG00000087303	NID2	nidogen 2 [Source:HGNC Symbol;Acc:HGNC:13389]	protein coding	-0.97	-2.15	-1.19	NS/-	
ENSG00000186198	SLC51B	solute carrier family 51 beta subunit [Source:HGNC Symbol;Acc:HGNC:29956]	protein coding	-2.07	-3.26	-1.19	NS/-	
ENSG00000139514	SLC7A1	solute carrier family 7 member 1 [Source:HGNC Symbol;Acc:HGNC:11057]	protein coding	4.14	2.95	-1.20	+/+	
ENSG00000115255	REEP6	receptor accessory protein 6 [Source:HGNC Symbol;Acc:HGNC:30078]	protein coding	-1.55	-2.74	-1.20	NS/-	
ENSG00000151348	EXT2	exostosin glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3513]	protein coding	-0.81	-2.01	-1.20	NS/-	
ENSG00000137404	NRM	nurim [Source:HGNC Symbol;Acc:HGNC:8003]	protein coding	-1.00	-2.20	-1.20	NS/-	
ENSG00000117906	RCN2	reticulocalbin 2 [Source:HGNC Symbol;Acc:HGNC:9935]	protein coding	-1.40	-2.60	-1.20	NS/-	
ENSG00000122642	FKBP9	FK506 binding protein 9 [Source:HGNC Symbol;Acc:HGNC:3725]	protein coding	-0.98	-2.19	-1.21	NS/-	
ENSG00000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:2561]	protein coding	5.16	3.95	-1.21	+/+	
ENSG00000148841	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]	protein coding	2.87	1.65	-1.21	+/NS	
ENSG00000135503	ACVR1B	activin A receptor type 1B [Source:HGNC Symbol;Acc:HGNC:172]	protein coding	-1.65	-2.87	-1.22	NS/-	
ENSG00000159899	NPR2	natriuretic peptide receptor 2 [Source:HGNC Symbol;Acc:HGNC:7944]	protein coding	-0.88	-2.10	-1.22	NS/-	
ENSG00000113205	PCDHB3	protocadherin beta 3 [Source:HGNC Symbol;Acc:HGNC:8688]	protein coding	-1.78	-3.00	-1.22	NS/-	
ENSG00000159063	ALG8	ALG8, alpha-1,3-glucosyltransferase [Source:HGNC Symbol;Acc:HGNC:23161]	protein coding	-0.87	-2.09	-1.23	NS/-	
ENSG00000139173	TMEM117	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	protein coding	-0.92	-2.15	-1.23	NS/-	
ENSG00000146433	TMEM181	transmembrane protein 181 [Source:HGNC Symbol;Acc:HGNC:20958]	protein coding	-1.04	-2.28	-1.24	NS/-	

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ENSG00000099937	SERPIND1	serpin family D member 1 [Source:HGNC Symbol;Acc:HGNC:4838]	protein coding	-1.70	-2.93	-1.24	-1.24	NS/-	
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor sub-unit [Source:HGNC Symbol;Acc:HGNC:6204]	protein coding	4.13	2.89	-1.24	-1.24	+/-	
ENSG00000140093	SERPINA10	serpin family A member 10 [Source:HGNC Symbol;Acc:HGNC:15996]	protein coding	-1.55	-2.80	-1.25	-1.25	NS/-	
ENSG00000168026	TTC21A	tetratricopeptide repeat domain 21A [Source:HGNC Symbol;Acc:HGNC:30761]	protein coding	3.08	1.83	-1.25	-1.25	+/NS	
ENSG00000165113	GKAP1	G kinase anchoring protein 1 [Source:HGNC Symbol;Acc:HGNC:17496]	protein coding	2.09	0.84	-1.25	-1.25	+/NS	
ENSG00000113594	LIFR	LIF receptor alpha [Source:HGNC Symbol;Acc:HGNC:6597]	protein coding	-1.42	-2.67	-1.25	-1.25	NS/-	
ENSG00000178772	CPN2	carboxypeptidase N subunit 2 [Source:HGNC Symbol;Acc:HGNC:2313]	protein coding	-1.99	-3.24	-1.25	-1.25	NS/-	
ENSG00000197142	ACSL5	acyl-CoA synthetase long chain family member 5 [Source:HGNC Symbol;Acc:HGNC:16526]	protein coding	-1.08	-2.33	-1.25	-1.25	NS/-	
ENSG00000171224	FAM241B	family with sequence similarity 241 member B [Source:HGNC Symbol;Acc:HGNC:23519]	protein coding	2.23	0.98	-1.26	-1.26	+/NS	
ENSG00000197977	ELOVL2	ELOVL fatty acid elongase 2 [Source:HGNC Symbol;Acc:HGNC:14416]	protein coding	-1.46	-2.72	-1.26	-1.26	NS/-	
ENSG00000123179	EBPL	EBP like [Source:HGNC Symbol;Acc:HGNC:18061]	protein coding	-1.42	-2.67	-1.26	-1.26	NS/-	
ENSG00000128683	GAD1	glutamate decarboxylase 1 [Source:HGNC Symbol;Acc:HGNC:4092]	protein coding	3.09	1.82	-1.26	-1.26	+/NS	
ENSG00000149809	TM7SF2	transmembrane 7 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11863]	protein coding	-1.18	-2.45	-1.27	-1.27	NS/-	
ENSG00000156869	FRRS1	ferric chelate reductase 1 [Source:HGNC Symbol;Acc:HGNC:27622]	protein coding	-1.65	-2.92	-1.27	-1.27	NS/-	
ENSG00000146859	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:HGNC:21870]	protein coding	3.29	2.02	-1.28	-1.28	+/-	
ENSG00000224550		NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4, 9kDa (NDUFA4) pseudogene	processed pseudogene	-1.01	-2.29	-1.28	-1.28	NS/-	
ENSG00000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	protein coding	2.38	1.10	-1.28	-1.28	+/NS	
ENSG00000173456	RNF26	ring finger protein 26 [Source:HGNC Symbol;Acc:HGNC:14646]	protein coding	-0.79	-2.07	-1.28	-1.28	NS/-	
ENSG00000206527	HACD2	3-hydroxyacyl-CoA dehydratase 2 [Source:HGNC Symbol;Acc:HGNC:9640]	protein coding	-0.89	-2.17	-1.28	-1.28	NS/-	
ENSG00000198162	MAN1A2	mannosidase alpha class 1A member 2 [Source:HGNC Symbol;Acc:HGNC:6822]	protein coding	-0.91	-2.19	-1.28	-1.28	NS/-	
ENSG00000188611	ASAH2	N-acylsphingosine amidohydrolase 2 [Source:HGNC Symbol;Acc:HGNC:18860]	protein coding	-1.75	-3.04	-1.29	-1.29	NS/-	
ENSG00000169174	PCSK9	proprotein convertase subtilisin/kexin type 9 [Source:HGNC Symbol;Acc:HGNC:20001]	protein coding	-1.16	-2.45	-1.29	-1.29	NS/-	
ENSG00000106105	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:4162]	protein coding	2.65	1.36	-1.29	-1.29	+/NS	
ENSG00000140092	FBLN5	fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]	protein coding	-1.28	-2.57	-1.29	-1.29	NS/-	

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ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	Sym-	bol	protein coding	3.50	2.21	-1.29	-1.29	+/-	
ENSG00000170222	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese dependent [Source:HGNC Symbol;Acc:HGNC:30925]			protein coding	2.52	1.22	-1.30	-1.30	+/NS	
ENSG00000186480	INSIG1	insulin induced gene 1 [Source:HGNC Symbol;Acc:HGNC:6083]	Sym-	bol	protein coding	-1.96	-3.25	-1.30	-1.30	NS/-	
ENSG00000104312	RIPK2	receptor interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:10020]			protein coding	2.10	0.80	-1.30	-1.30	+/NS	
ENSG00000138823	MTTP	microsomal triglyceride transfer protein [Source:HGNC Symbol;Acc:HGNC:7467]			protein coding	-1.35	-2.65	-1.30	-1.30	NS/-	
ENSG00000198734	F5	coagulation factor V [Source:HGNC Symbol;Acc:HGNC:3542]	Sym-	bol	protein coding	-1.63	-2.93	-1.30	-1.30	NS/-	
ENSG00000113889	KNG1	kininogen 1 [Source:HGNC Symbol;Acc:HGNC:6383]			protein coding	-1.55	-2.85	-1.30	-1.30	NS/-	
ENSG00000147257	GPC3	glypican 3 [Source:HGNC Symbol;Acc:HGNC:4451]			protein coding	-1.06	-2.36	-1.31	-1.31	NS/-	
ENSG00000088356	PDRG1	p53 and DNA damage regulated 1 [Source:HGNC Symbol;Acc:HGNC:16119]			protein coding	2.38	1.07	-1.31	-1.31	+/NS	
ENSG00000117298	ECE1	endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:HGNC:3146]			protein coding	-1.08	-2.39	-1.31	-1.31	NS/-	
ENSG00000141485	SLC13A5	solute carrier family 13 member 5 [Source:HGNC Symbol;Acc:HGNC:23089]			protein coding	-1.27	-2.59	-1.32	-1.32	NS/-	
ENSG00000170540	ARL6IP1	ADP ribosylation factor like GTPase 6 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:697]			protein coding	-0.99	-2.31	-1.32	-1.32	NS/-	
ENSG00000143819	EPHX1	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]	Sym-	bol	protein coding	-1.33	-2.65	-1.32	-1.32	NS/-	
ENSG00000171307	ZDHHC16	zinc finger DHHC-type containing 16 [Source:HGNC Symbol;Acc:HGNC:20714]			protein coding	-0.81	-2.12	-1.32	-1.32	NS/-	
ENSG00000121316	PLBD1	phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26215]			protein coding	-0.89	-2.21	-1.32	-1.32	NS/-	
ENSG0000005421	PON1	paraoxonase 1 [Source:HGNC Symbol;Acc:HGNC:9204]	Sym-	bol	protein coding	-1.26	-2.58	-1.32	-1.32	NS/-	
ENSG00000106771	TMEM245	transmembrane protein 245 [Source:HGNC Symbol;Acc:HGNC:1363]			protein coding	-1.03	-2.36	-1.32	-1.32	NS/-	
ENSG00000128039	SRD5A3	steroid 5 alpha-reductase 3 [Source:HGNC Symbol;Acc:HGNC:25812]	Sym-	bol	protein coding	-1.58	-2.91	-1.33	-1.33	NS/-	
ENSG00000059728	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:HGNC:6761]			protein coding	3.43	2.10	-1.33	-1.33	+/-	
ENSG00000172469	MANEA	mannosidase endo-alpha [Source:HGNC Symbol;Acc:HGNC:21072]	Sym-	bol	protein coding	-0.93	-2.27	-1.33	-1.33	NS/-	
ENSG00000143554	SLC27A3	solute carrier family 27 member 3 [Source:HGNC Symbol;Acc:HGNC:10997]			protein coding	-0.95	-2.28	-1.33	-1.33	NS/-	
ENSG00000134824	FADS2	fatty acid desaturase 2 [Source:HGNC Symbol;Acc:HGNC:3575]			protein coding	-1.15	-2.48	-1.33	-1.33	NS/-	
ENSG00000197121	PGAP1	post-GPI attachment to proteins 1 [Source:HGNC Symbol;Acc:HGNC:25712]			protein coding	-0.81	-2.14	-1.34	-1.34	NS/-	
ENSG00000177119	ANO6	anoctamin 6 [Source:HGNC Symbol;Acc:HGNC:25240]	Sym-	bol	protein coding	-0.91	-2.25	-1.34	-1.34	NS/-	

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ENSG00000168811	IL12A	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]	Sym-	protein coding	2.68	1.34	-1.34	+/NS				
ENSG00000144278	GALNT13	polypeptide N-acetylgalactosaminyltransferase 13 [Source:HGNC Symbol;Acc:HGNC:23242]	Sym-	protein coding	-1.49	-2.83	-1.34	NS/-				
ENSG0000064787	BCAS1	breast carcinoma amplified sequence 1 [Source:HGNC Symbol;Acc:HGNC:974]	Sym-	protein coding	-1.37	-2.72	-1.34	NS/-				
ENSG00000109762	SNX25	sorting nexin 25 [Source:HGNC Symbol;Acc:HGNC:21883]	Sym-	protein coding	-0.92	-2.27	-1.35	NS/-				
ENSG00000154781	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:HGNC:28033]	Sym-	protein coding	3.78	2.43	-1.35	+/+				
ENSG00000083817	ZNF416	zinc finger protein 416 [Source:HGNC Symbol;Acc:HGNC:20645]	Sym-	protein coding	2.43	1.07	-1.36	+/NS				
ENSG00000125827	TMX4	thioredoxin related transmembrane protein 4 [Source:HGNC Symbol;Acc:HGNC:25237]	Sym-	protein coding	-1.08	-2.44	-1.36	NS/-				
ENSG00000152952	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]	Sym-	protein coding	-1.15	-2.51	-1.36	NS/-				
ENSG00000143653	SCCPDH	saccharopine dehydrogenase (putative) [Source:HGNC Symbol;Acc:HGNC:24275]	Sym-	protein coding	-0.89	-2.26	-1.36	NS/-				
ENSG00000109929	SC5D	sterol-C5-desaturase [Source:HGNC Symbol;Acc:HGNC:10547]	Sym-	protein coding	-1.09	-2.46	-1.36	NS/-				
ENSG00000135862	LAMC1	laminin subunit gamma 1 [Source:HGNC Symbol;Acc:HGNC:6492]	Sym-	protein coding	-0.98	-2.34	-1.37	NS/-				
ENSG00000167992	VWCE	von Willebrand factor C and EGF domains [Source:HGNC Symbol;Acc:HGNC:26487]	Sym-	protein coding	-0.97	-2.34	-1.37	NS/-				
ENSG00000188167	TMPPE	transmembrane protein with metallophosphoesterase domain [Source:HGNC Symbol;Acc:HGNC:33865]	Sym-	protein coding	-0.67	-2.03	-1.37	NS/-				
ENSG00000101464	PIGU	phosphatidylinositol glycan anchor biosynthesis class U [Source:HGNC Symbol;Acc:HGNC:15791]	Sym-	protein coding	-0.77	-2.15	-1.37	NS/-				
ENSG00000169105	CHST14	carbohydrate sulfotransferase 14 [Source:HGNC Symbol;Acc:HGNC:24464]	Sym-	protein coding	-0.67	-2.05	-1.38	NS/-				
ENSG0000010379	SLC6A13	solute carrier family 6 member 13 [Source:HGNC Symbol;Acc:HGNC:11046]	Sym-	protein coding	-0.72	-2.10	-1.38	NS/-				
ENSG0000057019	DCBLD2	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24627]	Sym-	protein coding	-0.78	-2.17	-1.38	NS/-				
ENSG00000158865	SLC5A11	solute carrier family 5 member 11 [Source:HGNC Symbol;Acc:HGNC:23091]	Sym-	protein coding	-1.22	-2.61	-1.39	NS/-				
ENSG00000146409	SLC18B1	solute carrier family 18 member B1 [Source:HGNC Symbol;Acc:HGNC:21573]	Sym-	protein coding	-0.61	-2.00	-1.39	NS/-				
ENSG00000147255	IGSF1	immunoglobulin superfamily member 1 [Source:HGNC Symbol;Acc:HGNC:5948]	Sym-	protein coding	-0.78	-2.17	-1.39	NS/-				
ENSG0000085377	PREP	prolyl endopeptidase [Source:HGNC Symbol;Acc:HGNC:9358]	Sym-	protein coding	2.15	0.74	-1.41	+/NS				
ENSG00000113249	HAVCR1	hepatitis A virus cellular receptor 1 [Source:HGNC Symbol;Acc:HGNC:17866]	Sym-	protein coding	-1.08	-2.49	-1.41	NS/-				
ENSG00000141429	GALNT1	polypeptide N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4123]	Sym-	protein coding	-1.32	-2.73	-1.41	NS/-				

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ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	protein coding	9.67	8.26	-1.41	-1.41	+/-	
ENSG00000154864	PIEZO2	piezo type mechanosensitive ion channel component 2 [Source:HGNC Symbol;Acc:HGNC:26270]	protein coding	-0.62	-2.03	-1.41	-1.41	NS/-	
ENSG00000132718	SYT11	synaptotagmin 11 [Source:HGNC Symbol;Acc:HGNC:19239]	protein coding	2.55	1.14	-1.41	-1.41	+/NS	
ENSG00000163686	ABHD6	abhydrolase domain containing 6 [Source:HGNC Symbol;Acc:HGNC:21398]	protein coding	-0.91	-2.32	-1.42	-1.42	NS/-	
ENSG0000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]	protein coding	3.12	1.70	-1.42	-1.42	+/NS	
ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]	protein coding	-0.92	-2.34	-1.42	-1.42	NS/-	
ENSG00000270069	MIR222HG	miR222/221 cluster host gene [Source:HGNC Symbol;Acc:HGNC:49555]	lincRNA	3.97	2.55	-1.42	-1.42	+/NS	
ENSG00000082781	ITGB5	integrin subunit beta 5 [Source:HGNC Symbol;Acc:HGNC:6160]	protein coding	-0.61	-2.04	-1.43	-1.43	NS/-	
ENSG00000165861	ZFYVE1	zinc finger FYVE-type containing 1 [Source:HGNC Symbol;Acc:HGNC:13180]	protein coding	2.48	1.05	-1.43	-1.43	+/NS	
ENSG00000126218	F10	coagulation factor X [Source:HGNC Symbol;Acc:HGNC:3528]	protein coding	-0.77	-2.20	-1.43	-1.43	NS/-	
ENSG00000006042	TMEM98	transmembrane protein 98 [Source:HGNC Symbol;Acc:HGNC:24529]	protein coding	-0.97	-2.40	-1.43	-1.43	NS/-	
ENSG00000130309	COLGALT1	collagen beta(1-O)galactosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:26182]	protein coding	-0.63	-2.08	-1.44	-1.44	NS/-	
ENSG00000108576	SLC6A4	solute carrier family 6 member 4 [Source:HGNC Symbol;Acc:HGNC:11050]	protein coding	-2.19	-3.63	-1.44	-1.44	-/-	
ENSG00000156639	ZFAND3	zinc finger AN1-type containing 3 [Source:HGNC Symbol;Acc:HGNC:18019]	protein coding	2.55	1.11	-1.44	-1.44	+/NS	
ENSG00000151790	TDO2	tryptophan 2,3-dioxygenase [Source:HGNC Symbol;Acc:HGNC:11708]	protein coding	-0.88	-2.32	-1.45	-1.45	NS/-	
ENSG00000250722	SELENOP	selenoprotein P [Source:HGNC Symbol;Acc:HGNC:10751]	protein coding	-1.29	-2.73	-1.45	-1.45	NS/-	
ENSG00000154997	SEPT14	septin 14 [Source:HGNC Symbol;Acc:HGNC:33280]	protein coding	-1.00	-2.45	-1.45	-1.45	NS/-	
ENSG00000184205	TSPYL2	TSPY like 2 [Source:HGNC Symbol;Acc:HGNC:24358]	protein coding	4.20	2.73	-1.46	-1.46	+/-	
ENSG00000197619	ZNF615	zinc finger protein 615 [Source:HGNC Symbol;Acc:HGNC:24740]	protein coding	2.54	1.07	-1.46	-1.46	+/NS	
ENSG00000225697	SLC26A6	solute carrier family 26 member 6 [Source:HGNC Symbol;Acc:HGNC:14472]	protein coding	-0.61	-2.07	-1.46	-1.46	NS/-	
ENSG00000115084	SLC35F5	solute carrier family 35 member F5 [Source:HGNC Symbol;Acc:HGNC:23617]	protein coding	-0.85	-2.32	-1.47	-1.47	NS/-	
ENSG00000228278	ORM2	orosomucoid 2 [Source:HGNC Symbol;Acc:HGNC:8499]	protein coding	-0.72	-2.19	-1.47	-1.47	NS/-	
ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	protein coding	2.69	1.21	-1.47	-1.47	+/NS	
ENSG0000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]	protein coding	-1.02	-2.49	-1.47	-1.47	NS/-	
ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]	protein coding	-1.22	-2.70	-1.47	-1.47	NS/-	

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ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	protein coding	3.65	2.17	-1.48	+/-	
ENSG00000197647	ZNF433	zinc finger protein 433 [Source:HGNC Symbol;Acc:HGNC:20811]	protein coding	2.86	1.38	-1.48	+/NS	
ENSG00000163624	CDS1	CDP-diacylglycerol synthase 1 [Source:HGNC Symbol;Acc:HGNC:1800]	protein coding	-0.65	-2.13	-1.48	NS/-	
ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	protein coding	6.53	5.04	-1.49	+/-	
ENSG00000023608	SNAPC1	small nuclear RNA activating complex polypeptide 1 [Source:HGNC Symbol;Acc:HGNC:11134]	protein coding	2.88	1.39	-1.49	+/NS	
ENSG00000104549	SQLE	squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:11279]	protein coding	-0.88	-2.39	-1.50	NS/-	
ENSG00000060642	PIGV	phosphatidylinositol glycan anchor biosynthesis class V [Source:HGNC Symbol;Acc:HGNC:26031]	protein coding	-1.02	-2.52	-1.50	NS/-	
ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	protein coding	2.37	0.86	-1.51	+/NS	
ENSG00000181381	DDX60L	DExD/H-box 60 like [Source:HGNC Symbol;Acc:HGNC:26429]	protein coding	2.71	1.20	-1.51	+/NS	
ENSG00000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]	protein coding	3.65	2.14	-1.51	+/NS	
ENSG00000228409	CCT6P1	chaperonin containing TCP1 subunit 6 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33094]	transcribed unprocessed pseudogene	3.13	1.62	-1.51	+/NS	
ENSG0000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]	protein coding	2.83	1.32	-1.51	+/NS	
ENSG00000134243	SORT1	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]	protein coding	-0.79	-2.31	-1.52	NS/-	
ENSG00000135916	ITM2C	integral membrane protein 2C [Source:HGNC Symbol;Acc:HGNC:6175]	protein coding	-0.79	-2.31	-1.52	NS/-	
ENSG00000170522	ELOVL6	ELOVL fatty acid elongase 6 [Source:HGNC Symbol;Acc:HGNC:15829]	protein coding	-1.04	-2.56	-1.52	NS/-	
ENSG00000137414	FAM8A1	family with sequence similarity 8 member A1 [Source:HGNC Symbol;Acc:HGNC:16372]	protein coding	-0.63	-2.15	-1.52	NS/-	
ENSG00000144891	AGTR1	angiotensin II receptor type 1 [Source:HGNC Symbol;Acc:HGNC:336]	protein coding	-1.70	-3.22	-1.52	NS/-	
ENSG00000151233	GXYLT1	glucoside xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:27482]	protein coding	-0.71	-2.24	-1.53	NS/-	
ENSG00000145730	PAM	peptidyl/glycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	protein coding	-0.48	-2.01	-1.53	NS/-	
ENSG00000141337	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102]	protein coding	-1.19	-2.72	-1.54	NS/-	
ENSG00000149577	SIDT2	SID1 transmembrane family member 2 [Source:HGNC Symbol;Acc:HGNC:24272]	protein coding	-1.34	-2.88	-1.54	NS/-	
ENSG00000236764	COX7A2P2	cytochrome c oxidase subunit 7A2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:2290]	processed pseudogene	-1.20	-2.74	-1.54	NS/-	
ENSG00000138759	FRAS1	Fraser extracellular matrix complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:19185]	protein coding	-0.74	-2.28	-1.54	NS/-	

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ENSG00000162430	SELENON	selene protein N	[Source:HGNC Symbol;Acc:HGNC:15999]	Sym-	protein coding	-1.08	-2.63	-1.55	-1.55	NS/-	
ENSG00000104853	CLPTM1	CLPTM1, transmembrane protein	[Source:HGNC Symbol;Acc:HGNC:2087]		protein coding	-0.45	-2.00	-1.55	-1.55	NS/-	
ENSG00000161395	PGAP3	post-GPI attachment to proteins 3	[Source:HGNC Symbol;Acc:HGNC:23719]		protein coding	-0.48	-2.04	-1.56	-1.56	NS/-	
ENSG00000139291	TMEM19	transmembrane protein 19	[Source:HGNC Symbol;Acc:HGNC:25605]		protein coding	-1.50	-3.05	-1.56	-1.56	NS/-	
ENSG00000169087	HSPBAP1	HSPB1 associated protein 1	[Source:HGNC Symbol;Acc:HGNC:16389]		protein coding	2.58	1.02	-1.56	-1.56	+/NS	
ENSG00000085365	SCAMP1	secretory carrier membrane protein 1	[Source:HGNC Symbol;Acc:HGNC:10563]		protein coding	-0.56	-2.12	-1.56	-1.56	NS/-	
ENSG00000168016	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1	[Source:HGNC Symbol;Acc:HGNC:29011]		protein coding	3.33	1.77	-1.56	-1.56	+/NS	
ENSG00000067704	IARS2	isoleucyl-tRNA synthetase 2, mitochondrial	[Source:HGNC Symbol;Acc:HGNC:29685]		protein coding	-0.73	-2.29	-1.56	-1.56	NS/-	
ENSG00000101104	PABPC1L	poly(A) binding protein cytoplasmic 1 like	[Source:HGNC Symbol;Acc:HGNC:15797]		protein coding	3.31	1.75	-1.56	-1.56	+/NS	
ENSG00000168003	SLC3A2	solute carrier family 3 member 2	[Source:HGNC Symbol;Acc:HGNC:11026]		protein coding	2.32	0.76	-1.56	-1.56	+/NS	
ENSG00000108846	ABCC3	ATP binding cassette subfamily C member 3	[Source:HGNC Symbol;Acc:HGNC:54]		protein coding	-0.68	-2.24	-1.56	-1.56	NS/-	
ENSG00000124568	SLC17A1	solute carrier family 17 member 1	[Source:HGNC Symbol;Acc:HGNC:10929]		protein coding	-1.60	-3.17	-1.57	-1.57	NS/-	
ENSG00000167107	ACSF2	acyl-CoA synthetase family member 2	[Source:HGNC Symbol;Acc:HGNC:26101]		protein coding	-0.45	-2.02	-1.57	-1.57	NS/-	
ENSG00000113161	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase	[Source:HGNC Symbol;Acc:HGNC:5006]		protein coding	-1.00	-2.57	-1.58	-1.58	NS/-	
ENSG00000213949	ITGA1	integrin subunit alpha 1	[Source:HGNC Symbol;Acc:HGNC:6134]		protein coding	-0.93	-2.51	-1.58	-1.58	NS/-	
ENSG00000177707	NECTIN3	nectin cell adhesion molecule 3	[Source:HGNC Symbol;Acc:HGNC:17664]		protein coding	-0.51	-2.09	-1.58	-1.58	NS/-	
ENSG00000054983	GALC	galactosylceramidase	[Source:HGNC Symbol;Acc:HGNC:4115]		protein coding	-0.64	-2.23	-1.59	-1.59	NS/-	
ENSG00000157399	ARSE	arylsulfatase E	[Source:HGNC Symbol;Acc:HGNC:719]		protein coding	-0.74	-2.35	-1.60	-1.60	NS/-	
ENSG00000152990	ADGRA3	adhesion G protein-coupled receptor A3	[Source:HGNC Symbol;Acc:HGNC:13839]		protein coding	-0.66	-2.27	-1.60	-1.60	NS/-	
ENSG00000188153	COL4A5	collagen type IV alpha 5 chain	[Source:HGNC Symbol;Acc:HGNC:2207]		protein coding	-0.58	-2.19	-1.60	-1.60	NS/-	
ENSG00000172594	SMPDL3A	sphingomyelin phosphodiesterase acid like 3A	[Source:HGNC Symbol;Acc:HGNC:17389]		protein coding	-0.86	-2.47	-1.60	-1.60	NS/-	
ENSG00000119185	ITGB1BP1	integrin subunit beta 1 binding protein 1	[Source:HGNC Symbol;Acc:HGNC:23927]		protein coding	-0.62	-2.23	-1.60	-1.60	NS/-	
ENSG00000108950	FAM20A	FAM20A, golgi associated secretory pathway pseudokinase	[Source:HGNC Symbol;Acc:HGNC:23015]		protein coding	-1.58	-3.18	-1.61	-1.61	NS/-	

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ENSG00000090020	SLC9A1	solute carrier family 9 member A1 [Source:HGNC Symbol;Acc:HGNC:11071]	protein coding	2.62	1.02	-1.61	+/NS	
ENSG00000170271	FAXDC2	fatty acid hydroxylase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1334]	protein coding	-0.78	-2.39	-1.61	NS/-	
ENSG00000214019		RNA-binding region (RNP1, RRM) containing 2 (RNP2) pseudogene	processed pseudogene	2.06	0.44	-1.62	+/NS	
ENSG00000197563	PIGN	phosphatidylinositol glycan anchor biosynthesis class N [Source:HGNC Symbol;Acc:HGNC:8967]	protein coding	-0.77	-2.39	-1.62	NS/-	
ENSG00000128342	LIF	LIF, interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	protein coding	6.82	5.20	-1.62	+/+	
ENSG00000170631	ZNF16	zinc finger protein 16 [Source:HGNC Symbol;Acc:HGNC:12947]	protein coding	3.19	1.56	-1.63	+/NS	
ENSG00000183134	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:HGNC:4502]	protein coding	-2.54	-4.17	-1.63	-/-	
ENSG00000139974	SLC38A6	solute carrier family 38 member 6 [Source:HGNC Symbol;Acc:HGNC:19863]	protein coding	-0.38	-2.02	-1.64	NS/-	
ENSG00000133657	ATP13A3	ATPase 13A3 [Source:HGNC Symbol;Acc:HGNC:24113]	protein coding	-0.51	-2.15	-1.64	NS/-	
ENSG00000139192	TAPBPL	TAP binding protein like [Source:HGNC Symbol;Acc:HGNC:30683]	protein coding	2.51	0.86	-1.65	+/NS	
ENSG00000151366	NDUFC2	NADH:ubiquinone oxidoreductase subunit C2 [Source:HGNC Symbol;Acc:HGNC:7706]	protein coding	-1.15	-2.79	-1.65	NS/-	
ENSG00000174358	SLC6A19	solute carrier family 6 member 19 [Source:HGNC Symbol;Acc:HGNC:27960]	protein coding	-1.35	-3.01	-1.65	NS/-	
ENSG00000084674	APOB	apolipoprotein B [Source:HGNC Symbol;Acc:HGNC:603]	protein coding	-1.65	-3.31	-1.66	NS/-	
ENSG00000197969	VPS13A	vacuolar protein sorting 13 homolog A [Source:HGNC Symbol;Acc:HGNC:1908]	protein coding	-0.39	-2.05	-1.66	NS/-	
ENSG00000163378	EOGT	EGF domain specific O-linked N-acetylglucosamine transferase [Source:HGNC Symbol;Acc:HGNC:28526]	protein coding	-0.71	-2.37	-1.67	NS/-	
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	protein coding	3.96	2.30	-1.67	+/+	
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	protein coding	8.45	6.79	-1.67	+/+	
ENSG00000158516	CPA2	carboxypeptidase A2 [Source:HGNC Symbol;Acc:HGNC:2297]	protein coding	3.91	2.24	-1.67	+/+	
ENSG00000145192	AHSG	alpha 2-HS glycoprotein [Source:HGNC Symbol;Acc:HGNC:349]	protein coding	-0.81	-2.49	-1.69	NS/-	
ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]	protein coding	2.47	0.78	-1.69	+/NS	
ENSG00000111199	TRPV4	transient receptor potential cation channel subfamily V member 4 [Source:HGNC Symbol;Acc:HGNC:18083]	protein coding	-0.73	-2.42	-1.69	NS/-	
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	protein coding	6.25	4.55	-1.69	+/+	

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ENSG00000121005	CRISPLD1	cysteine rich secretory protein LCCL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18206]	protein coding	-0.54	-2.24	-1.69	-1.69	NS/-	
ENSG00000113569	NUP155	nucleoporin 155 [Source:HGNC Symbol;Acc:HGNC:8063]	protein coding	-0.36	-2.06	-1.70	-1.70	NS/-	
ENSG00000123124	WWP1	WW domain containing E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:HGNC:17004]	protein coding	-0.42	-2.12	-1.70	-1.70	NS/-	
ENSG00000051108	HERPUD1	homocysteine inducible ER protein with ubiquitin like domain 1 [Source:HGNC Symbol;Acc:HGNC:13744]	protein coding	3.31	1.60	-1.71	-1.71	+/NS	
ENSG00000135317	SNX14	sorting nexin 14 [Source:HGNC Symbol;Acc:HGNC:14977]	protein coding	-0.61	-2.32	-1.71	-1.71	NS/-	
ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]	protein coding	2.03	0.29	-1.74	-1.74	+/NS	
ENSG00000204444	APOM	apolipoprotein M [Source:HGNC Symbol;Acc:HGNC:13916]	protein coding	-0.76	-2.50	-1.74	-1.74	NS/-	
ENSG00000138050	THUMPD2	THUMP domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14890]	protein coding	2.29	0.55	-1.74	-1.74	+/NS	
ENSG00000069943	PIGB	phosphatidylinositol glycan anchor biosynthesis class B [Source:HGNC Symbol;Acc:HGNC:8959]	protein coding	-0.76	-2.52	-1.75	-1.75	NS/-	
ENSG00000154309	DISP1	dispatched RND transporter family member 1 [Source:HGNC Symbol;Acc:HGNC:19711]	protein coding	-0.45	-2.21	-1.76	-1.76	NS/-	
ENSG00000106460	TMEM106B	transmembrane protein 106B [Source:HGNC Symbol;Acc:HGNC:22407]	protein coding	-0.76	-2.52	-1.77	-1.77	NS/-	
ENSG00000164308	ERAP2	endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]	protein coding	2.33	0.56	-1.77	-1.77	+/NS	
ENSG00000143858	SYT2	synaptotagmin 2 [Source:HGNC Symbol;Acc:HGNC:11510]	protein coding	-1.35	-3.13	-1.78	-1.78	NS/-	
ENSG00000157570	TSPAN18	tetraspanin 18 [Source:HGNC Symbol;Acc:HGNC:20660]	protein coding	-0.83	-2.61	-1.78	-1.78	NS/-	
ENSG00000099194	SCD	stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:10571]	protein coding	-1.37	-3.16	-1.79	-1.79	NS/-	
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	protein coding	-0.39	-2.18	-1.79	-1.79	NS/-	
ENSG00000161048	NAPEPLD	N-acyl phosphatidylethanolamine phospholipase D [Source:HGNC Symbol;Acc:HGNC:21683]	protein coding	-0.21	-2.01	-1.80	-1.80	NS/-	
ENSG00000169550	MUC15	mucin 15, cell surface associated [Source:HGNC Symbol;Acc:HGNC:14956]	protein coding	-0.55	-2.35	-1.80	-1.80	NS/-	
ENSG00000215035	FDPSP5	farnesyl diphosphate synthase pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:3636]	processed pseudogene	-0.20	-2.00	-1.81	-1.81	NS/-	
ENSG00000164647	STEAP1	STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:11378]	protein coding	-0.60	-2.42	-1.81	-1.81	NS/-	
ENSG00000105852	PON3	paraoxonase 3 [Source:HGNC Symbol;Acc:HGNC:9206]	protein coding	-0.52	-2.35	-1.82	-1.82	NS/-	
ENSG0000010219	DYRK4	dual specificity tyrosine phosphorylation regulated kinase 4 [Source:HGNC Symbol;Acc:HGNC:3095]	protein coding	2.55	0.72	-1.84	-1.84	+/NS	
ENSG00000163285	GABRG1	gamma-aminobutyric acid type A receptor gamma1 subunit [Source:HGNC Symbol;Acc:HGNC:4086]	protein coding	3.44	1.59	-1.85	-1.85	+/NS	
ENSG00000100031	GGT1	gamma-glutamyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4250]	protein coding	-0.25	-2.10	-1.85	-1.85	NS/-	

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ENSG00000163399	ATP1A1	ATPase Na ⁺ /K ⁺ transporting subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:799]	protein coding	-0.60	-2.46	-1.86	-1.86	NS/-	
ENSG00000134569	LRP4	LDL receptor related protein 4 [Source:HGNC Symbol;Acc:HGNC:6696]	protein coding	-0.78	-2.65	-1.88	-1.88	NS/-	
ENSG00000166027	PPP2R5A	protein phosphatase 2 regulatory subunit B'alpha [Source:HGNC Symbol;Acc:HGNC:9309]	protein coding	-0.66	-2.54	-1.88	-1.88	NS/-	
ENSG00000204859	ZBTB48	zinc finger and BTB domain containing 48 [Source:HGNC Symbol;Acc:HGNC:4930]	protein coding	2.75	0.86	-1.89	-1.89	+/NS	
ENSG00000141384	TAF4B	TATA-box binding protein associated factor 4b [Source:HGNC Symbol;Acc:HGNC:11538]	protein coding	2.06	0.16	-1.90	-1.90	+/NS	
ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	protein coding	2.88	0.98	-1.90	-1.90	+/NS	
ENSG00000181004	BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:HGNC:26648]	protein coding	2.03	0.12	-1.91	-1.91	+/NS	
ENSG00000119977	TCTN3	tectonic family member 3 [Source:HGNC Symbol;Acc:HGNC:24519]	protein coding	-0.81	-2.72	-1.91	-1.91	NS/-	
ENSG00000241399	CD302	CD302 molecule [Source:HGNC Symbol;Acc:HGNC:30843]	protein coding	-2.11	-4.03	-1.92	-1.92	-/NS	
ENSG00000179818	PCBP1-AS1	PCBP1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:42948]	processed transcript	2.18	0.26	-1.92	-1.92	+/NS	
ENSG00000239305	RNF103	ring finger protein 103 [Source:HGNC Symbol;Acc:HGNC:12859]	protein coding	-0.27	-2.20	-1.93	-1.93	NS/-	
ENSG00000149084	HSD17B12	hydroxysteroid 17-beta dehydrogenase 12 [Source:HGNC Symbol;Acc:HGNC:18646]	protein coding	-0.61	-2.54	-1.93	-1.93	NS/-	
ENSG0000008394	MGST1	microsomal glutathione S-transferase 1 [Source:HGNC Symbol;Acc:HGNC:7061]	protein coding	-0.93	-2.86	-1.93	-1.93	NS/-	
ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]	protein coding	-0.87	-2.81	-1.93	-1.93	NS/-	
ENSG00000248208	WDR45P1	WD repeat domain 45 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:52406]	processed pseudogene	2.82	0.88	-1.95	-1.95	+/NS	
ENSG00000144035	NAT8	N-acetyltransferase 8 (putative) [Source:HGNC Symbol;Acc:HGNC:18069]	protein coding	-1.18	-3.12	-1.95	-1.95	NS/-	
ENSG00000204852	TCTN1	tectonic family member 1 [Source:HGNC Symbol;Acc:HGNC:26113]	protein coding	-0.06	-2.02	-1.96	-1.96	NS/-	
ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	protein coding	-0.94	-2.91	-1.96	-1.96	NS/-	
ENSG00000167080	B4GALNT2	beta-1,4-N-acetyl-galactosaminyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:24136]	protein coding	-0.45	-2.44	-1.98	-1.98	NS/-	
ENSG00000076351	SLC46A1	solute carrier family 46 member 1 [Source:HGNC Symbol;Acc:HGNC:30521]	protein coding	-0.34	-2.33	-1.99	-1.99	NS/-	
ENSG00000110619	CARS	cysteinyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:1493]	protein coding	2.91	0.92	-1.99	-1.99	+/NS	
ENSG00000161031	PGLYRP2	peptidoglycan recognition protein 2 [Source:HGNC Symbol;Acc:HGNC:30013]	protein coding	-1.44	-3.45	-2.01	-2.01	NS/-	
ENSG00000172197	MBOAT1	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	protein coding	-0.62	-2.64	-2.01	-2.01	NS/-	

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ENSG00000145908	ZNF300	zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13091]	Sym-	protein coding	3.09	1.05	-2.04	+/NS	
ENSG00000167780	SOAT2	sterol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:11178]	Sym-	protein coding	-1.10	-3.13	-2.04	NS/-	
ENSG00000239467		glutamate rich 2 [Source:NCBI gene;Acc:285141]	lincRNA	2.59	0.55	-2.04	+/NS		
ENSG00000130827	PLXNA3	plexin A3 [Source:HGNC Symbol;Acc:HGNC:9101]	protein coding	2.19	0.14	-2.05	+/NS		
ENSG00000136936	XPA	XPA, DNA damage recognition and repair factor [Source:HGNC Symbol;Acc:HGNC:12814]	protein coding	2.19	0.14	-2.05	+/NS		
ENSG00000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]	protein coding	2.33	0.28	-2.06	+/NS		
ENSG00000106526	ACTR3C	ARP3 actin related protein 3 homolog C [Source:HGNC Symbol;Acc:HGNC:37282]	protein coding	-0.92	-2.99	-2.07	NS/-		
ENSG00000160888	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:HGNC:28871]	protein coding	5.04	2.97	-2.07	+/+		
ENSG00000172602	RND1	Rho family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:18314]	protein coding	5.43	3.36	-2.07	+/+		
ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	protein coding	2.55	0.47	-2.07	+/NS		
ENSG00000116761	CTH	cystathione gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	protein coding	4.20	2.12	-2.08	+/+		
ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]	protein coding	3.45	1.36	-2.09	+/NS		
ENSG00000134538	SLCO1B1	solute carrier organic anion transporter family member 1B1 [Source:HGNC Symbol;Acc:HGNC:10959]	protein coding	-0.23	-2.32	-2.09	NS/-		
ENSG00000139182	CLSTN3	calsyntenin 3 [Source:HGNC Symbol;Acc:HGNC:18371]	protein coding	-0.06	-2.20	-2.13	NS/-		
ENSG00000152439	ZNF773	zinc finger protein 773 [Source:HGNC Symbol;Acc:HGNC:30487]	protein coding	3.73	1.60	-2.14	+/NS		
ENSG00000077616	NAALAD2	N-acetylated alpha-linked acidic dipeptidase 2 [Source:HGNC Symbol;Acc:HGNC:14526]	protein coding	-0.33	-2.47	-2.14	NS/-		
ENSG00000123342	MMP19	matrix metallopeptidase 19 [Source:HGNC Symbol;Acc:HGNC:7165]	protein coding	3.28	1.13	-2.14	+/NS		
ENSG00000200436			misc RNA	-3.18	-5.35	-2.17	-/NS		
ENSG00000100100	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24942]	protein coding	2.25	0.06	-2.18	+/NS		
ENSG00000158669	GPAT4	glycerol-3-phosphate acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:20880]	protein coding	0.09	-2.10	-2.19	NS/-		
ENSG00000111261	MANSC1	MANSC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25505]	protein coding	-0.66	-2.86	-2.20	NS/-		
ENSG00000139209	SLC38A4	solute carrier family 38 member 4 [Source:HGNC Symbol;Acc:HGNC:14679]	protein coding	-0.54	-2.75	-2.21	NS/-		
ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	protein coding	0.09	-2.14	-2.24	NS/-		
ENSG00000169564	PCBP1	poly(rC) binding protein 1 [Source:HGNC Symbol;Acc:HGNC:8647]	protein coding	2.32	0.06	-2.25	+/NS		
ENSG00000060566	CREB3L3	cAMP responsive element binding protein 3 like 3 [Source:HGNC Symbol;Acc:HGNC:18855]	protein coding	-0.27	-2.54	-2.27	NS/-		

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ENSG00000108622	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:5345]	protein coding	3.00	0.73	-2.28	+/NS	
ENSG00000204520	MICA	MHC class I polypeptide-related sequence A [Source:HGNC Symbol;Acc:HGNC:7090]	protein coding	3.22	0.93	-2.29	+/NS	
ENSG00000162687	KCNT2	potassium sodium-activated channel subfamily T member 2 [Source:HGNC Symbol;Acc:HGNC:18866]	protein coding	2.44	0.13	-2.31	+/NS	
ENSG00000114948	ADAM23	ADAM metallopeptidase domain 23 [Source:HGNC Symbol;Acc:HGNC:202]	protein coding	0.12	-2.21	-2.33	NS/-	
ENSG00000189060	H1F0	H1 histone family member 0 [Source:HGNC Symbol;Acc:HGNC:4714]	protein coding	4.03	1.66	-2.37	+/NS	
ENSG00000196526	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24017]	protein coding	3.80	1.43	-2.38	+/NS	
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	protein coding	4.60	2.21	-2.38	+/+	
ENSG00000248498	ASNSP1	asparagine synthetase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:754]	transcribed unprocessed pseudogene	6.10	3.68	-2.42	+/+	
ENSG00000163626	COX18	cytochrome c oxidase assembly factor COX18 [Source:HGNC Symbol;Acc:HGNC:26801]	protein coding	0.13	-2.29	-2.42	NS/-	
ENSG00000166592	RRAD	RRAD, Ras related glycolysis inhibitor and calcium channel regulator [Source:HGNC Symbol;Acc:HGNC:10446]	protein coding	7.58	5.15	-2.43	+/+	
ENSG00000132639	SNAP25	synaptosome associated protein 25 [Source:HGNC Symbol;Acc:HGNC:11132]	protein coding	3.57	1.14	-2.43	+/NS	
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	protein coding	6.12	3.65	-2.46	+/+	
ENSG00000102409	BEX4	brain expressed X-linked 4 [Source:HGNC Symbol;Acc:HGNC:25475]	protein coding	2.84	0.32	-2.52	+/NS	
ENSG00000084453	SLCO1A2	solute carrier organic anion transporter family member 1A2 [Source:HGNC Symbol;Acc:HGNC:10956]	protein coding	0.06	-2.50	-2.56	NS/-	
ENSG00000128567	PODXL	podocalyxin like [Source:HGNC Symbol;Acc:HGNC:9171]	protein coding	3.04	0.47	-2.58	+/NS	
ENSG00000164695	CHMP4C	charged multivesicular body protein 4C [Source:HGNC Symbol;Acc:HGNC:30599]	protein coding	2.66	0.07	-2.58	+/NS	
ENSG00000087301	TXNDC16	thioredoxin domain containing 16 [Source:HGNC Symbol;Acc:HGNC:19965]	protein coding	0.30	-2.35	-2.65	NS/-	
ENSG00000015568	RGPD5	RANBP2-like and GRIP domain containing 5 [Source:HGNC Symbol;Acc:HGNC:32418]	protein coding	3.50	0.84	-2.65	+/NS	
ENSG00000162460	TMEM82	transmembrane protein 82 [Source:HGNC Symbol;Acc:HGNC:32350]	protein coding	0.19	-2.48	-2.67	NS/-	
ENSG00000132793	LPIN3	lipin 3 [Source:HGNC Symbol;Acc:HGNC:14451]	protein coding	2.84	0.16	-2.68	+/NS	
ENSG00000169245	CXCL10	C-X-C motif chemokine ligand 10 [Source:HGNC Symbol;Acc:HGNC:10637]	protein coding	6.92	4.23	-2.69	+/+	
ENSG0000010704	HFE	homeostatic iron regulator [Source:HGNC Symbol;Acc:HGNC:4886]	protein coding	-0.34	-3.04	-2.70	NS/-	
ENSG00000165475	CRYL1	crystallin lambda 1 [Source:HGNC Symbol;Acc:HGNC:18246]	protein coding	-0.63	-3.33	-2.70	NS/-	

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ENSG00000270170	NCBP2-AS2	NCBP2 antisense RNA 2 (head to head) [Source:HGNC Symbol;Acc:HGNC:25121]	protein coding	-0.11	-2.85	-2.74	-2.74	NS/-	
ENSG00000258102	MAP1LC3B2	microtubule associated protein 1 light chain 3 beta 2 [Source:HGNC Symbol;Acc:HGNC:34390]	protein coding	3.92	1.18	-2.75	-2.75	+/NS	
ENSG0000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:4525]	protein coding	3.31	0.53	-2.79	-2.79	+/NS	
ENSG00000173409	ARV1	ARV1 homolog, fatty acid homeostasis modulator [Source:HGNC Symbol;Acc:HGNC:29561]	protein coding	0.23	-2.57	-2.80	-2.80	NS/-	
ENSG00000163521	GLB1L	galactosidase beta 1 like [Source:HGNC Symbol;Acc:HGNC:28129]	protein coding	-0.19	-3.02	-2.84	-2.84	NS/-	
ENSG00000236404	VLDLR-AS1	VLDLR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	antisense	6.44	3.60	-2.84	-2.84	+/+	
ENSG00000104381	GDAP1	ganglioside induced differentiation associated protein 1 [Source:HGNC Symbol;Acc:HGNC:15968]	protein coding	2.88	-0.03	-2.90	-2.90	+/NS	
ENSG00000166986	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:HGNC:6898]	protein coding	2.05	-0.85	-2.90	-2.90	+/NS	
ENSG00000170571	EMB	embigin [Source:HGNC Symbol;Acc:HGNC:30465]	protein coding	0.11	-2.82	-2.94	-2.94	NS/-	
ENSG00000137628	DDX60	DExD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	protein coding	6.11	3.11	-3.00	-3.00	+/+	
ENSG00000167550	RHEBL1	RHEB like 1 [Source:HGNC Symbol;Acc:HGNC:21166]	protein coding	6.60	3.58	-3.01	-3.01	+/+	
ENSG00000142910	TINAGL1	tubulointerstitial nephritis antigen like 1 [Source:HGNC Symbol;Acc:HGNC:19168]	protein coding	0.54	-2.50	-3.03	-3.03	NS/-	
ENSG00000170502	NUDT9	nudix hydrolase 9 [Source:HGNC Symbol;Acc:HGNC:8056]	protein coding	2.49	-0.55	-3.04	-3.04	+/NS	
ENSG00000147202	DIAPH2	diaphanous related formin 2 [Source:HGNC Symbol;Acc:HGNC:2877]	protein coding	2.64	-0.42	-3.06	-3.06	+/NS	
ENSG00000159164	SV2A	synaptic vesicle glycoprotein 2A [Source:HGNC Symbol;Acc:HGNC:20566]	protein coding	0.74	-2.39	-3.13	-3.13	NS/-	
ENSG00000117480	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:HGNC:3553]	protein coding	2.01	-1.15	-3.16	-3.16	+/NS	
ENSG00000137821	LRRC49	leucine rich repeat containing 49 [Source:HGNC Symbol;Acc:HGNC:25965]	protein coding	4.61	1.39	-3.22	-3.22	+/NS	
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	protein coding	7.74	4.43	-3.31	-3.31	+/+	
ENSG00000174028	FAM3C2	family with sequence similarity 3 member C2 (pseudogene) [Source:HGNC Symbol;Acc:HGNC:34501]	processed pseudogene	1.18	-2.14	-3.32	-3.32	NS/-	
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	protein coding	10.65	7.28	-3.36	-3.36	+/+	
ENSG00000166821	PEX11A	peroxisomal biogenesis factor 11 alpha [Source:HGNC Symbol;Acc:HGNC:8852]	protein coding	0.15	-3.27	-3.42	-3.42	NS/-	
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	protein coding	6.75	3.28	-3.47	-3.47	+/+	
ENSG00000246130			antisense	5.90	2.33	-3.57	-3.57	+/NS	
ENSG00000137767	SQOR	sulfide quinone oxidoreductase [Source:HGNC Symbol;Acc:HGNC:20390]	protein coding	3.88	0.31	-3.57	-3.57	+/NS	
ENSG00000178467	P4HTM	prolyl 4-hydroxylase, transmembrane [Source:HGNC Symbol;Acc:HGNC:28858]	protein coding	3.06	-0.53	-3.59	-3.59	+/NS	

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ENSG0000070669	ASNS	asparagine synthetase (glutamine-hydrolyzing) [Source:HGNC Symbol;Acc:HGNC:753]	protein coding	7.65	3.95	-3.70	+/+	
ENSG0000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	protein coding	6.25	2.39	-3.86	+/NS	
ENSG0000145014	TMEM44	transmembrane protein 44 [Source:HGNC Symbol;Acc:HGNC:25120]	protein coding	3.17	-1.66	-4.83	+/NS	
ENSG0000200169	RNU5D-1	RNA, U5D small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10214]	snRNA	-1.02	-5.86	-4.84	NS/-	
ENSG0000218502	H2AFZP3	H2A histone family member Z pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:38013]	processed pseudogene	-0.05	-5.25	-5.20	NS/-	
ENSG0000144857	BOC	BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]	protein coding	6.26	1.00	-5.25	+/NS	
ENSG0000262074	SNORD3B-2	small nucleolar RNA, C/D box 3B-2 [Source:HGNC Symbol;Acc:HGNC:33190]	snoRNA	7.84			+/LE	
ENSG0000230021			transcribed processed pseudogene	-7.68			-/LE	
ENSG0000075388	FGF4	fibroblast growth factor 4 [Source:HGNC Symbol;Acc:HGNC:3682]	protein coding	7.16			+/LE	
ENSG0000204869	IGFL4	IGF like family member 4 [Source:HGNC Symbol;Acc:HGNC:32931]	protein coding	6.48			+/LE	
ENSG0000265641	MIR3929	microRNA 3929 [Source:HGNC Symbol;Acc:HGNC:38945]	miRNA	6.18			+/LE	
ENSG0000199890			misc RNA	-6.15			-/LE	
ENSG0000228347	FTLP17	ferritin light chain pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:37967]	processed pseudogene	-6.14			-/LE	
ENSG0000266651		novel transcript	lincRNA	-6.05			-/LE	
ENSG0000250348		novel transcript	antisense	-5.68			-/LE	
ENSG0000136235	GPNMB	glycoprotein nmb [Source:HGNC Symbol;Acc:HGNC:4462]	protein coding	-5.61			-/LE	
ENSG0000255508		novel transcript	protein coding	-5.51			-/LE	
ENSG0000247903		novel transcript, antisense to TM7SF3	antisense	-5.44			-/LE	
ENSG0000237913	FTLP19	ferritin light chain pseudogene 19 [Source:HGNC Symbol;Acc:HGNC:37969]	processed pseudogene	-5.43			-/LE	
ENSG0000260389	WBP11P1	WW domain binding protein 11 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:26250]	transcribed processed pseudogene	-5.35			-/LE	
ENSG0000226855	RPSAP17	ribosomal protein SA pseudogene 17 [Source:HGNC Symbol;Acc:HGNC:35707]	processed pseudogene	-5.35			-/LE	
ENSG0000222969	RN7SKP8	RNA, 7SK small nuclear pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:42626]	misc RNA	-5.31			-/LE	
ENSG0000261114		novel transcript, sense intronic to HERPUD1	sense intronic	5.13			+/LE	
ENSG0000242769	RN7SL432P	RNA, 7SL, cytoplasmic 432, pseudogene [Source:HGNC Symbol;Acc:HGNC:46448]	misc RNA	-5.05			-/LE	
ENSG0000199562	RNU6-37P	RNA, U6 small nuclear 37, pseudogene [Source:HGNC Symbol;Acc:HGNC:34281]	snRNA	-5.01			-/LE	

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ENSG00000242101	RN7SL416P	RNA, 7SL, cytoplasmic 416, pseudogene [Source:HGNC Symbol;Acc:HGNC:46432]	misc RNA	-5.00				-/LE
ENSG00000206905			misc RNA	-5.00				-/LE
ENSG00000053702	NRIP2	nuclear receptor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:23078]	protein coding	-4.89				-/LE
ENSG00000283414			snRNA	-4.87				-/LE
ENSG00000104140	RHOV	ras homolog family member V [Source:HGNC Symbol;Acc:HGNC:18313]	protein coding	4.83				+/LE
ENSG00000241959	RN7SL76P	RNA, 7SL, cytoplasmic 76, pseudogene [Source:HGNC Symbol;Acc:HGNC:46092]	misc RNA	-4.70				-/LE
ENSG00000207005	RNU1-2	RNA, U1 small nuclear 2 [Source:HGNC Symbol;Acc:HGNC:10123]	snRNA	4.27				+/LE
ENSG00000207260	RNU6-35P	RNA, U6 small nuclear 35, pseudogene [Source:HGNC Symbol;Acc:HGNC:34279]	snRNA	-4.19				-/LE
ENSG00000207003	RNU6-611P	RNA, U6 small nuclear 611, pseudogene [Source:HGNC Symbol;Acc:HGNC:47574]	snRNA	-4.18				-/LE
ENSG00000207428	RNU6-95P	RNA, U6 small nuclear 95, pseudogene [Source:HGNC Symbol;Acc:HGNC:47058]	snRNA	-4.14				-/LE
ENSG00000200494			misc RNA	-3.87				-/LE
ENSG00000226067	LINC00623	long intergenic non-protein coding RNA 623 [Source:HGNC Symbol;Acc:HGNC:44252]	lincRNA	3.85				+/LE
ENSG00000179242	CDH4	cadherin 4 [Source:HGNC Symbol;Acc:HGNC:1763]	protein coding	3.84				+/LE
ENSG00000222449	RNU6-1140P	RNA, U6 small nuclear 1140, pseudogene [Source:HGNC Symbol;Acc:HGNC:48103]	snRNA	-3.77				-/LE
ENSG00000117586	TNFSF4	TNF superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:11934]	protein coding	-3.69				-/LE
ENSG00000252996	RNU6-1315P	RNA, U6 small nuclear 1315, pseudogene [Source:HGNC Symbol;Acc:HGNC:48278]	snRNA	-3.67				-/LE
ENSG00000199827	RNU6-1290P	RNA, U6 small nuclear 1290, pseudogene [Source:HGNC Symbol;Acc:HGNC:48253]	snRNA	-3.67				-/LE
ENSG00000207198	RNU6-1195P	RNA, U6 small nuclear 1195, pseudogene [Source:HGNC Symbol;Acc:HGNC:48158]	snRNA	-3.66				-/LE
ENSG00000217648		pseudogene similar to presenilin associated, rhomboid-like PARDL novel transcript	processed pseudogene	-3.66				-/LE
ENSG00000269888			lincRNA	-3.66				-/LE
ENSG00000243488	RN7SL337P	RNA, 7SL, cytoplasmic 337, pseudogene [Source:HGNC Symbol;Acc:HGNC:46353]	misc RNA	-3.66				-/LE
ENSG00000207293			misc RNA	-3.65				-/LE
ENSG00000199366			misc RNA	-3.60				-/LE
ENSG00000230647		novel transcript	lincRNA	3.58				+/LE
ENSG00000232587	EEF1A1P3	eukaryotic translation elongation factor 1 alpha 1 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:3194]	processed pseudogene	-3.53				-/LE
ENSG00000267620		general transcription factor IIH, polypeptide 1, 62kDa pseudogene	processed pseudogene	3.46				+/LE
ENSG00000187860	CCDC157	coiled-coil domain containing 157 [Source:HGNC Symbol;Acc:HGNC:33854]	protein coding	3.46				+/LE

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ENSG00000202137			misc RNA	-3.44				-/LE
ENSG00000200860			misc RNA	-3.40				-/LE
ENSG00000234155	LINC02535	long intergenic non-protein coding RNA 2535 [Source:HGNC Symbol;Acc:HGNC:53569]	lincRNA	-3.39				-/LE
ENSG00000213757		ribosomal protein S3A (RPS3A) pseudogene	processed pseudogene	-3.34				-/LE
ENSG00000173262	SLC2A14	solute carrier family 2 member 14 [Source:HGNC Symbol;Acc:HGNC:18301]	protein coding	-3.34				-/LE
ENSG00000222524	RN7SKP109	RNA, 7SK small nuclear pseudogene 109 [Source:HGNC Symbol;Acc:HGNC:45833]	misc RNA	-3.31				-/LE
ENSG00000202306			misc RNA	-3.28				-/LE
ENSG00000239742	RN7SL672P	RNA, 7SL, cytoplasmic 672, pseudogene [Source:HGNC Symbol;Acc:HGNC:46688]	misc RNA	-3.27				-/LE
ENSG00000222451	RN7SKP143	RNA, 7SK small nuclear pseudogene 143 [Source:HGNC Symbol;Acc:HGNC:45867]	misc RNA	-3.17				-/LE
ENSG00000199223			misc RNA	-3.16				-/LE
ENSG00000200834			misc RNA	-3.14				-/LE
ENSG00000201955	RNY3P1	RNA, Ro-associated Y3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42477]	misc RNA	-3.14				-/LE
ENSG00000199285			misc RNA	-3.14				-/LE
ENSG00000199368	RNU6-1084P	RNA, U6 small nuclear 1084, pseudogene [Source:HGNC Symbol;Acc:HGNC:48047]	snRNA	-3.13				-/LE
ENSG00000134871	COL4A2	collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203]	protein coding	-3.08				-/LE
ENSG00000201078	RN7SKP214	RNA, 7SK small nuclear pseudogene 214 [Source:HGNC Symbol;Acc:HGNC:45938]	misc RNA	-3.06				-/LE
ENSG00000207389	RNU1-4	RNA, U1 small nuclear 4 [Source:HGNC Symbol;Acc:HGNC:10128]	snRNA	-3.04				-/LE
ENSG00000222231	RNU2-54P	RNA, U2 small nuclear 54, pseudogene [Source:HGNC Symbol;Acc:HGNC:48547]	snRNA	-3.01				-/LE
ENSG00000262001	DLGAP1-AS2	DLGAP1 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:28146]	antisense	3.00				+/LE
ENSG00000199731	RNU6-1079P	RNA, U6 small nuclear 1079, pseudogene [Source:HGNC Symbol;Acc:HGNC:48042]	snRNA	-2.95				-/LE
ENSG00000207142			misc RNA	-2.90				-/LE
ENSG00000259697		novel transcript	lincRNA	-2.89				-/LE
ENSG00000242158	RN7SL361P	RNA, 7SL, cytoplasmic 361, pseudogene [Source:HGNC Symbol;Acc:HGNC:46377]	misc RNA	-2.87				-/LE
ENSG00000200183	RNU6-238P	RNA, U6 small nuclear 238, pseudogene [Source:HGNC Symbol;Acc:HGNC:47201]	snRNA	-2.84				-/LE
ENSG00000199377	RNU5F-1	RNA, U5F small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10216]	snRNA	-2.79				-/LE
ENSG00000137880	GCHFR	GTP cyclohydrolase I feedback regulator [Source:HGNC Symbol;Acc:HGNC:4194]	protein coding	-2.76				-/LE
ENSG00000207115	RNU6-364P	RNA, U6 small nuclear 364, pseudogene [Source:HGNC Symbol;Acc:HGNC:47327]	snRNA	-2.76				-/LE

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ENSG00000252982	RN7SKP234	RNA, 7SK small nuclear pseudogene [Source:HGNC Symbol;Acc:HGNC:45958]	misc RNA	-2.76				-/LE
ENSG00000215154			transcribed unprocessed pseudogene	2.75				+/LE
ENSG00000200314			misc RNA	-2.75				-/LE
ENSG00000207261	RNU6-738P	RNA, U6 small nuclear 738, pseudogene [Source:HGNC Symbol;Acc:HGNC:47701]	snRNA	-2.74				-/LE
ENSG00000226715	LINC01709	long intergenic non-protein coding RNA 1709 [Source:HGNC Symbol;Acc:HGNC:52497]	lincRNA	-2.73				-/LE
ENSG00000272476		novel transcript, antisense to SEC63	antisense	2.72				+/LE
ENSG00000201031			misc RNA	-2.68				-/LE
ENSG00000138315	OIT3	oncoprotein induced transcript 3 [Source:HGNC Symbol;Acc:HGNC:29953]	protein coding	-2.68				-/LE
ENSG00000165121		kinesin family member 27 (KIF27) pseudogene	transcribed unprocessed pseudogene	2.68				+/LE
ENSG00000206625	RNU6-1	RNA, U6 small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10227]	snRNA	-2.67				-/LE
ENSG00000115137	DNAJC27	DnaJ heat shock protein family (Hsp40) member C27 [Source:HGNC Symbol;Acc:HGNC:30290]	protein coding	2.66				+/LE
ENSG00000223117	RN7SKP296	RNA, 7SK small nuclear pseudogene 296 [Source:HGNC Symbol;Acc:HGNC:46020]	misc RNA	-2.64				-/LE
ENSG00000200737			misc RNA	-2.64				-/LE
ENSG00000206888	RNU6-48P	RNA, U6 small nuclear 48, pseudogene [Source:HGNC Symbol;Acc:HGNC:34292]	snRNA	-2.60				-/LE
ENSG00000199812	RNU6-428P	RNA, U6 small nuclear 428, pseudogene [Source:HGNC Symbol;Acc:HGNC:47391]	snRNA	-2.59				-/LE
ENSG00000240306	RN7SL100P	RNA, 7SL, cytoplasmic 100, pseudogene [Source:HGNC Symbol;Acc:HGNC:46116]	misc RNA	-2.54				-/LE
ENSG00000240997	RN7SL183P	RNA, 7SL, cytoplasmic 183, pseudogene [Source:HGNC Symbol;Acc:HGNC:46199]	misc RNA	-2.54				-/LE
ENSG00000272113			misc RNA	-2.53				-/LE
ENSG00000244722	RPSAP29	ribosomal protein SA pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:36680]	processed pseudogene	-2.52				-/LE
ENSG00000233952	FTLP15	ferritin light chain pseudogene 15 [Source:HGNC Symbol;Acc:HGNC:37965]	processed pseudogene	-2.51				-/LE
ENSG00000276588	RN7SL322P	RNA, 7SL, cytoplasmic 322, pseudogene [Source:HGNC Symbol;Acc:HGNC:46338]	misc RNA	-2.46				-/LE
ENSG00000239731	RN7SL825P	RNA, 7SL, cytoplasmic 825, pseudogene [Source:HGNC Symbol;Acc:HGNC:46841]	misc RNA	-2.45				-/LE
ENSG00000222438	RNU6-1077P	RNA, U6 small nuclear 1077, pseudogene [Source:HGNC Symbol;Acc:HGNC:48040]	snRNA	-2.45				-/LE
ENSG00000206954	RNU6-1201P	RNA, U6 small nuclear 1201, pseudogene [Source:HGNC Symbol;Acc:HGNC:48164]	snRNA	-2.44				-/LE
ENSG00000240767	RN7SL288P	RNA, 7SL, cytoplasmic 288, pseudogene [Source:HGNC Symbol;Acc:HGNC:46304]	misc RNA	-2.42				-/LE

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ENSG00000244256	RN7SL130P	RNA, 7SL, cytoplasmic 130, pseudogene [Source:HGNC Symbol;Acc:HGNC:46146]	misc RNA	-2.41				-/LE
ENSG00000277452	RN7SL473P	RNA, 7SL, cytoplasmic 473, pseudogene [Source:HGNC Symbol;Acc:HGNC:46489]	misc RNA	-2.41				-/LE
ENSG00000201196			misc RNA	-2.41				-/LE
ENSG00000201901	RN7SKP48	RNA, 7SK small nuclear pseudogene 48 [Source:HGNC Symbol;Acc:HGNC:45772]	misc RNA	2.40				+/LE
ENSG00000238561	RNU6ATAC28P	RNA, U6atac small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:46927]	snRNA	-2.36				-/LE
ENSG00000128617	OPN1SW	opsin 1, short wave sensitive [Source:HGNC Symbol;Acc:HGNC:1012]	protein coding	-2.35				-/LE
ENSG00000251870	RNU2-69P	RNA, U2 small nuclear 69, pseudogene [Source:HGNC Symbol;Acc:HGNC:48562]	snRNA	-2.34				-/LE
ENSG00000207507	RNU6-9	RNA, U6 small nuclear 9 [Source:HGNC Symbol;Acc:HGNC:34269]	snRNA	-2.32				-/LE
ENSG00000256338	RPL41P2	ribosomal protein L41 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:10357]	processed pseudogene	-2.30				-/LE
ENSG00000239211	RN7SL563P	RNA, 7SL, cytoplasmic 563, pseudogene [Source:HGNC Symbol;Acc:HGNC:46579]	misc RNA	-2.29				-/LE
ENSG00000238516			misc RNA	-2.29				-/LE
ENSG00000266128	RN7SL366P	RNA, 7SL, cytoplasmic 366, pseudogene [Source:HGNC Symbol;Acc:HGNC:46382]	misc RNA	-2.28				-/LE
ENSG00000276653	RN7SL856P	RNA, 7SL, cytoplasmic 856, pseudogene [Source:HGNC Symbol;Acc:HGNC:46872]	misc RNA	-2.28				-/LE
ENSG00000206651			misc RNA	-2.24				-/LE
ENSG00000200153	RNU6-23P	RNA, U6 small nuclear 23, pseudogene [Source:HGNC Symbol;Acc:HGNC:34267]	snRNA	-2.23				-/LE
ENSG00000228462	RPS19P7	ribosomal protein S19 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:35550]	processed pseudogene	-2.21				-/LE
ENSG00000199248	RNU6-28P	RNA, U6 small nuclear 28, pseudogene [Source:HGNC Symbol;Acc:HGNC:34272]	snRNA	-2.18				-/LE
ENSG00000200673	RN7SKP174	RNA, 7SK small nuclear pseudogene 174 [Source:HGNC Symbol;Acc:HGNC:45898]	misc RNA	-2.18				-/LE
ENSG00000238444	RNU6-893P	RNA, U6 small nuclear 893, pseudogene [Source:HGNC Symbol;Acc:HGNC:47856]	snRNA	-2.17				-/LE
ENSG00000241420	RN7SL505P	RNA, 7SL, cytoplasmic 505, pseudogene [Source:HGNC Symbol;Acc:HGNC:46521]	misc RNA	-2.17				-/LE
ENSG00000200091	RN7SKP163	RNA, 7SK small nuclear pseudogene 163 [Source:HGNC Symbol;Acc:HGNC:45887]	misc RNA	-2.15				-/LE
ENSG00000200309			misc RNA	-2.14				-/LE
ENSG00000280434		novel transcript, sense overlapping PARVB	sense overlapping	-2.12				-/LE
ENSG00000202304	RNU6-1130P	RNA, U6 small nuclear 1130, pseudogene [Source:HGNC Symbol;Acc:HGNC:48093]	snRNA	-2.11				-/LE
ENSG00000252652			misc RNA	-2.07				-/LE
ENSG00000278898	TEC		TEC	-2.05				-/LE

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ENSG00000201654	RNU6-7	RNA, U6 small nuclear 7 [Source:HGNC Symbol;Acc:HGNC:34284]	snRNA	-2.04				-/LE
ENSG00000243333	RN7SL174P	RNA, 7SL, cytoplasmic 174, pseudogene [Source:HGNC Symbol;Acc:HGNC:46190]	misc RNA	-2.01				-/LE
ENSG00000243426	RN7SL454P	RNA, 7SL, cytoplasmic 454, pseudogene [Source:HGNC Symbol;Acc:HGNC:46470]	misc RNA	-2.00				-/LE
ENSG00000153253	SCN3A	sodium voltage-gated channel alpha subunit 3 [Source:HGNC Symbol;Acc:HGNC:10590]	protein coding		7.14		LE/+	
ENSG00000183709	IFNL2	interferon lambda 2 [Source:HGNC Symbol;Acc:HGNC:18364]	protein coding		7.11		LE/+	
ENSG00000211592	IGKC	immunoglobulin kappa constant [Source:HGNC Symbol;Acc:HGNC:5716]	IG C gene		6.82		LE/+	
ENSG00000136383	ALPK3	alpha kinase 3 [Source:HGNC Symbol;Acc:HGNC:17574]	protein coding		6.81		LE/+	
ENSG00000197110	IFNL3	interferon lambda 3 [Source:HGNC Symbol;Acc:HGNC:18365]	protein coding		6.62		LE/+	
ENSG00000214279	SCART1	scavenger receptor family member expressed on T cells 1 [Source:HGNC Symbol;Acc:HGNC:32411]	protein coding		6.46		LE/+	
ENSG00000130487	KLHDC7B	kelch domain containing 7B [Source:HGNC Symbol;Acc:HGNC:25145]	protein coding		6.37		LE/+	
ENSG00000132274	TRIM22	tripartite motif containing 22 [Source:HGNC Symbol;Acc:HGNC:16379]	protein coding		6.34		LE/+	
ENSG00000248713	C4orf54	chromosome 4 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:27741]	protein coding		6.29		LE/+	
ENSG00000147262	GPR119	G protein-coupled receptor 119 [Source:HGNC Symbol;Acc:HGNC:19060]	protein coding		-6.26		LE/-	
ENSG00000137959	IFI44L	interferon induced protein 44 like [Source:HGNC Symbol;Acc:HGNC:17817]	protein coding		6.24		LE/+	
ENSG00000110446	SLC15A3	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	protein coding		6.19		LE/+	
ENSG00000078081	LAMP3	lysosomal associated membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:14582]	protein coding		6.16		LE/+	
ENSG00000282870	FRG1DP	FSHD region gene 1 family member D, pseudogene [Source:HGNC Symbol;Acc:HGNC:51763]	unprocessed pseudogene		6.04		LE/+	
ENSG00000110944	IL23A	interleukin 23 subunit alpha [Source:HGNC Symbol;Acc:HGNC:15488]	protein coding		6.02		LE/+	
ENSG00000136514	RTP4	receptor transporter protein 4 [Source:HGNC Symbol;Acc:HGNC:23992]	protein coding		5.87		LE/+	
ENSG00000135842	FAM129A	family with sequence similarity 129 member A [Source:HGNC Symbol;Acc:HGNC:16784]	protein coding		5.66		LE/+	
ENSG00000132530	XAF1	XIAP associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30932]	protein coding		5.53		LE/+	
ENSG00000272269			antisense		5.51		LE/+	
ENSG00000243716	NPIPBP5	nuclear pore complex interacting protein family member B5 [Source:HGNC Symbol;Acc:HGNC:37233]	protein coding		5.49		LE/+	
ENSG00000273142	LINC02604	long intergenic non-protein coding RNA 2604 [Source:HGNC Symbol;Acc:HGNC:53972]	lincRNA		5.43		LE/+	

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ENSG00000227425	MRPS21P2	mitochondrial ribosomal protein S21 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:29749]	processed pseudogene		-5.40			LE/-
ENSG00000137463	MGARP	mitochondria localized glutamic acid rich protein [Source:HGNC Symbol;Acc:HGNC:29969]	protein coding		-5.35			LE/-
ENSG00000177943	MAMDC4	MAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:24083]	protein coding		5.30			LE/+
ENSG00000147642	SYBU	syntabulin [Source:HGNC Symbol;Acc:HGNC:26011]	protein coding		5.30			LE/+
ENSG00000243406	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:39253]	transcribed unprocessed pseudogene		5.27			LE/+
ENSG00000159753	CARMIL2	capping protein regulator and myosin 1 linker 2 [Source:HGNC Symbol;Acc:HGNC:27089]	protein coding		5.18			LE/+
ENSG00000133328	HRASLS2	HRAS like suppressor 2 [Source:HGNC Symbol;Acc:HGNC:17824]	protein coding		5.15			LE/+
ENSG00000232624	LINC01517	long intergenic non-protein coding RNA 1517 [Source:HGNC Symbol;Acc:HGNC:51212]	processed transcript		5.13			LE/+
ENSG00000137877	SPTBN5	spectrin beta, non-erythrocytic 5 [Source:HGNC Symbol;Acc:HGNC:15680]	protein coding		5.00			LE/+
ENSG00000185507	IRF7	interferon regulatory factor 7 [Source:HGNC Symbol;Acc:HGNC:6122]	protein coding		4.90			LE/+
ENSG00000230071	RPL4P6	ribosomal protein L4 pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:35611]	processed pseudogene		4.88			LE/+
ENSG00000181016	LSMEM1	leucine rich single-pass membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:22036]	protein coding		4.82			LE/+
ENSG00000108242	CYP2C18	cytochrome P450 family 2 subfamily C member 18 [Source:HGNC Symbol;Acc:HGNC:2620]	protein coding		-4.73			LE/-
ENSG00000092607	TBX15	T-box 15 [Source:HGNC Symbol;Acc:HGNC:11594]	protein coding		4.67			LE/+
ENSG00000133401	PDZD2	PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC:18486]	protein coding		4.59			LE/+
ENSG00000230825			processed transcript		4.59			LE/+
ENSG00000157152	SYN2	synapsin II [Source:HGNC Symbol;Acc:HGNC:11495]	protein coding		4.58			LE/+
ENSG00000164061	BSN	bassoon presynaptic cytomatrix protein [Source:HGNC Symbol;Acc:HGNC:1117]	protein coding		4.53			LE/+
ENSG00000073734	ABCB11	ATP binding cassette subfamily B member 11 [Source:HGNC Symbol;Acc:HGNC:42]	protein coding		-4.53			LE/-
ENSG00000080910	CFHR2	complement factor H related 2 [Source:HGNC Symbol;Acc:HGNC:4890]	protein coding		-4.47			LE/-
ENSG00000281706		long intergenic non-protein coding RNA 1012 [Source:NCBI gene;Acc:100507173]	lincRNA		4.47			LE/+
ENSG00000112486	CCR6	C-C motif chemokine receptor 6 [Source:HGNC Symbol;Acc:HGNC:1607]	protein coding		-4.44			LE/-
ENSG00000092421	SEMA6A	semaphorin 6A [Source:HGNC Symbol;Acc:HGNC:10738]	protein coding		-4.38			LE/-
ENSG00000235119		novel transcript	lincRNA		4.34			LE/+
ENSG00000111186	WNT5B	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	protein coding		-4.26			LE/-

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description			Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RNA-Seq, ER)	\log_2 Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG0000073605	GSDMB	gasdermin B	[Source:HGNC Symbol;Acc:HGNC:23690]	Sym-	protein coding		4.13			LE/+
ENSG00000251568	ALG3P1	ALG3, alpha-1,3- mannosyltransferase pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:45159]		processed pseudogene		-4.06			LE/-
ENSG00000261819					processed pseudogene		-4.01			LE/-
ENSG00000178685	PARP10	poly(ADP-ribose) polymerase family member 10	[Source:HGNC Symbol;Acc:HGNC:25895]		protein coding		4.00			LE/+
ENSG00000179886	TIGD5	tigger transposable element derived 5	[Source:HGNC Symbol;Acc:HGNC:18336]		protein coding		3.98			LE/+
ENSG00000147799	ARHGAP39	Rho GTPase activating protein 39	[Source:HGNC Symbol;Acc:HGNC:29351]		protein coding		3.97			LE/+
ENSG00000228551	SNRPGP9	small nuclear ribonucleoprotein polypeptide G pseudogene 9	[Source:HGNC Symbol;Acc:HGNC:39328]		processed pseudogene		-3.73			LE/-
ENSG00000170989	S1PR1	sphingosine-1-phosphate receptor 1	[Source:HGNC Symbol;Acc:HGNC:3165]		protein coding		-3.72			LE/-
ENSG00000164484	TMEM200A	transmembrane protein 200A	[Source:HGNC Symbol;Acc:HGNC:21075]		protein coding		-3.69			LE/-
ENSG00000185453	ZSWIM9	zinc finger SWIM-type containing 9	[Source:HGNC Symbol;Acc:HGNC:34495]		protein coding		3.67			LE/+
ENSG00000165197	VEGFD	vascular endothelial growth factor D	[Source:HGNC Symbol;Acc:HGNC:3708]		protein coding		-3.65			LE/-
ENSG00000281490	CICP14	capicua transcriptional repressor pseudogene 14	[Source:HGNC Symbol;Acc:HGNC:38542]		processed pseudogene		3.61			LE/+
ENSG00000242756	RHOT1P3	ras homolog family member T1 pseudogene 3	[Source:HGNC Symbol;Acc:HGNC:37839]		processed pseudogene		3.59			LE/+
ENSG00000267530	LINC01836	long intergenic non-protein coding RNA 1836	[Source:HGNC Symbol;Acc:HGNC:52652]		lncRNA		3.54			LE/+
ENSG00000181638	ZFP41	ZFP41 zinc finger protein	[Source:HGNC Symbol;Acc:HGNC:26786]		protein coding		3.52			LE/+
ENSG00000227942	FRMD8P1	FERM domain containing 8 pseudogene 1	[Source:HGNC Symbol;Acc:HGNC:24690]		processed pseudogene		3.39			LE/+
ENSG00000198732	SMOC1	SPARC related modular calcium binding 1	[Source:HGNC Symbol;Acc:HGNC:20318]		protein coding		-3.39			LE/-
ENSG00000155918	RAET1L	retinoic acid early transcript 1L	[Source:HGNC Symbol;Acc:HGNC:16798]		protein coding		3.39			LE/+
ENSG00000253598	SLC10A5	solute carrier family 10 member 5	[Source:HGNC Symbol;Acc:HGNC:22981]		protein coding		-3.38			LE/-
ENSG00000119227	PIGZ	phosphatidylinositol glycan anchor biosynthesis class Z	[Source:HGNC Symbol;Acc:HGNC:30596]		protein coding		-3.34			LE/-
ENSG00000133475	GGT2	gamma-glutamyltransferase 2	[Source:HGNC Symbol;Acc:HGNC:4251]		protein coding		-3.30			LE/-
ENSG00000114200	BCHE	butyrylcholinesterase	[Source:HGNC Symbol;Acc:HGNC:983]	Sym-	protein coding		-3.27			LE/-
ENSG00000243944					antisense		-3.27			LE/-
ENSG00000238793	SNORD124	small nucleolar RNA, C/D box 124	[Source:HGNC Symbol;Acc:HGNC:33563]		snoRNA		3.26			LE/+

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RP, ER)	\log_2 Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000248522	SBF1P1	SET binding factor 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:31098]	processed pseudogene		3.19			LE/+
ENSG00000135218	CD36	CD36 molecule [Source:HGNC Symbol;Acc:HGNC:1663]	protein coding		-3.19			LE/-
ENSG00000105697	HAMP	hepcidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:15598]	protein coding		3.14			LE/+
ENSG00000039537	C6	complement C6 [Source:HGNC Symbol;Acc:HGNC:1339]	protein coding		-3.11			LE/-
ENSG00000104936	DMPK	DM1 protein kinase [Source:HGNC Symbol;Acc:HGNC:2933]	protein coding		3.10			LE/+
ENSG00000226405		hydroxysteroid (17-beta) dehydrogenase 12	processed pseudogene		-3.07			LE/-
ENSG00000146904	EPHA1	EPH receptor A1 [Source:HGNC Symbol;Acc:HGNC:3385]	protein coding		-3.07			LE/-
ENSG0000079557	AFM	afamin [Source:HGNC Symbol;Acc:HGNC:316]	protein coding		-3.00			LE/-
ENSG0000092929	UNC13D	unc-13 homolog D [Source:HGNC Symbol;Acc:HGNC:23147]	protein coding		2.98			LE/+
ENSG00000179399	GPC5	glypican 5 [Source:HGNC Symbol;Acc:HGNC:4453]	protein coding		-2.97			LE/-
ENSG00000266184		ubiquitin fusion degradation 1 like (yeast) (UFD1L) pseudogene	processed pseudogene		-2.94			LE/-
ENSG00000232380	ZDHHC20P4	zinc finger DHHC-type containing 20 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:39776]	processed pseudogene		-2.88			LE/-
ENSG00000138109	CYP2C9	cytochrome P450 family 2 subfamily C member 9 [Source:HGNC Symbol;Acc:HGNC:2623]	protein coding		-2.85			LE/-
ENSG00000189058	APOD	apolipoprotein D [Source:HGNC Symbol;Acc:HGNC:612]	protein coding		-2.85			LE/-
ENSG00000113100	CDH9	cadherin 9 [Source:HGNC Symbol;Acc:HGNC:1768]	protein coding		-2.82			LE/-
ENSG00000139508	SLC46A3	solute carrier family 46 member 3 [Source:HGNC Symbol;Acc:HGNC:27501]	protein coding		-2.81			LE/-
ENSG00000110031	LPXN	leupaxin [Source:HGNC Symbol;Acc:HGNC:14061]	protein coding		2.78			LE/+
ENSG00000234964	FABP5P7	fatty acid binding protein 5 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:31070]	processed pseudogene		-2.78			LE/-
ENSG00000182107	TMEM30B	transmembrane protein 30B [Source:HGNC Symbol;Acc:HGNC:27254]	protein coding		-2.77			LE/-
ENSG00000171234	UGT2B7	UDP glucuronosyltransferase family 2 member B7 [Source:HGNC Symbol;Acc:HGNC:12554]	protein coding		-2.77			LE/-
ENSG00000100321	SYNGR1	synaptogyrin 1 [Source:HGNC Symbol;Acc:HGNC:11498]	protein coding		-2.76			LE/-
ENSG00000257704	INAFM1	InaF motif containing 1 [Source:HGNC Symbol;Acc:HGNC:27406]	protein coding		2.71			LE/+
ENSG00000238936	SNORD65B	small nucleolar RNA, C/D box 65B [Source:HGNC Symbol;Acc:HGNC:52231]	snoRNA		2.58			LE/+
ENSG00000172817	CYP7B1	cytochrome P450 family 7 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2652]	protein coding		-2.55			LE/-
ENSG00000066813	ACSM2B	acyl-CoA synthetase medium chain family member 2B [Source:HGNC Symbol;Acc:HGNC:30931]	protein coding		-2.53			LE/-

Ensembl Gene ID	Ensembl Gene Name	Ensembl Gene Description	Gene Type	\log_2 Change (RNA-Seq, ER)	Fold Change (RP, ER)	\log_2 Fold Change (RP, ER)	Translation Efficiency	Regulation
ENSG00000219532	SELENOKP2	selenoprotein K pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:53725]	processed pseudogene		2.52			LE/+
ENSG00000233225		single stranded DNA binding protein 3 (SSBP3) pseudogene	processed pseudogene		-2.52			LE/-
ENSG00000110881	ASIC1	acid sensing ion channel subunit 1 [Source:HGNC Symbol;Acc:HGNC:100]	protein coding		-2.46			LE/-
ENSG00000258754	LINC01579	long intergenic non-protein coding RNA 1579 [Source:HGNC Symbol;Acc:HGNC:27519]	lincRNA		2.45			LE/+
ENSG00000271707	ATP1B3P1	ATPase Na+/K+ transporting subunit beta 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:807]	processed pseudogene		-2.42			LE/-
ENSG00000213185	FAM24B	family with sequence similarity 24 member B [Source:HGNC Symbol;Acc:HGNC:23475]	protein coding		2.37			LE/+
ENSG00000163823	CCR1	C-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:1602]	protein coding		-2.36			LE/-
ENSG00000163661	PTX3	pentraxin 3 [Source:HGNC Symbol;Acc:HGNC:9692]	protein coding		2.35			LE/+
ENSG00000112852	PCDHB2	protocadherin beta 2 [Source:HGNC Symbol;Acc:HGNC:8687]	protein coding		-2.34			LE/-
ENSG00000257017	HP	haptoglobin [Source:HGNC Symbol;Acc:HGNC:5141]	protein coding		-2.33			LE/-
ENSG00000176826	FKBP9P1	FK506 binding protein 9 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:23568]	transcribed unprocessed pseudogene		-2.29			LE/-
ENSG00000116815	CD58	CD58 molecule [Source:HGNC Symbol;Acc:HGNC:1688]	protein coding		-2.28			LE/-

Table 81: Similarities/dissimilarities between sets of identified differentially transcribed and translated genes (ER, 40h PI). Translational efficiency was calculated by taking all genes significantly differentially expressed in both Ribosomal Profiling and RNA-Seq assays, and taking the difference between the Ribosomal Profiling \log_2 fold change and the RNA-Seq \log_2 fold change for each gene. Gene model summaries and annotations are based on Ensembl Version 95 (August 2017). RP: Ribosomal Profiling, +: significantly up-regulated, -: significantly down-regulated, NS: not significantly regulated, LE: the low-expression filtering cut off was not met.

Package Name	Version	Package Name	Version	Package Name	Version
nlme	3.1-139	RCurl	1.95-4.12	tibble	2.1.2
bitops	1.0-6	magrittr	1.5	GenomicAlignments	1.20.0
matrixStats	0.54.0	GO.db	3.8.2	AnnotationDbi	1.46.0
bit64	0.9-7	GenomeInfoDbData	1.2.1	memoise	1.1.0
progress	1.2.2	Matrix	1.2-17	IRanges	2.18.1
httr	1.4.0	munspell	0.5.0	cluster	2.0.8
GenomeInfoDb	1.20.0	Rcpp	1.0.1	doParallel	1.0.14
tools	3.6.0	S4Vectors	0.22.0	iterators	1.0.10
R6	2.4.0	abind	1.4-5	foreach	1.4.4
KernSmooth	2.23-15	stringi	1.4.3	Cairo	1.5-10
lazyeval	0.2.2	SummarizedExperiment	1.14.0	UpSetR	1.3.3
colorspace	1.4-1	zlibbioc	1.30.0	gridExtra	2.3
DBI	1.0.0	blob	1.1.1	plyr	1.8.4
BiocGenerics	0.30.0	gdata	2.18.0	stringr	1.4.0
mgcv	1.8-28	forcats	0.4.0	gtools	3.8.1
tidyselect	0.2.5	crayon	1.3.4	R.utils	2.8.0
prettyunits	1.0.2	Biostrings	2.52.0	R.oo	1.22.0
bit	1.1-14	haven	2.1.0	R.methodsS3	1.7.1
curl	3.3	splines	3.6.0	vegan	2.5-5
compiler	3.6.0	GenomicFeatures	1.36.1	lattice	0.20-38
chron	2.3-53	hms	0.4.2	permute	0.9-5
Biobase	2.44.0	locfit	1.5-9.1	car	3.0-3
DelayedArray	0.10.0	pillar	1.4.1	carData	3.0-2
labeling	0.3	tcltk	3.6.0	pvclust	2.0-0
rtracklayer	1.44.0	GenomicRanges	1.36.0	sqldf	0.4-11
scales	1.0.0	codetools	0.2-16	RSQLite	2.1.1
caTools	1.17.1.2	stats4	3.6.0	gsubfn	0.7
digest	0.6.19	glue	1.3.1	proto	1.0.0
Rsamtools	2.0.0	XML	3.98-1.19	gplots	3.0.1.1
foreign	0.8-71	evaluate	0.14	MASS	7.3-51.4
rio	0.5.16	data.table	1.12.2	xtable	1.8-4
XVector	0.24.0	cellranger	1.1.0	goseq	1.36.0
pkgconfig	2.0.2	purrr	0.3.2	geneLenDataBase	1.20.0
rlang	0.3.4	gttable	0.3.0	BiasedUrn	1.07
readxl	1.3.1	assertthat	0.2.1	biomaRt	2.40.0
BiocParallel	1.18.0	ggplot2	3.1.1	edgeR	3.26.4
dplyr	0.8.0.1	xfun	0.7	limma	3.40.2
zip	2.0.2	openxlsx	4.1.0.1	knitr	1.23

Table 82: List of R packages and versions used for the analyses presented in this report. R version 3.6.0 (2019-04-26) 'Planting of a Tree'