

Supporting Information for

Copper-Based Targeted Nanocatalytic Therapeutics for Non-Small Cell Lung Cancer

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S1 Experimental Section

S1.1 Materials

Cupric Sulfate (CuSO₄), polyethylene glycol (PEG) 4000, hyaluronic acid (HA), Dimercaptosuccinic acid and N,N-Dimethylformamide (DMF) were all bought from Aladdin (Shanghai, China).

S1.2 The formulation of copper–N,N-dimethyl-N-phenylsulfonylbisamine (DMSA) NPs modified with polyethylene glycol nanoparticles (NPs) (Cu–DMSA–PEG NPs) and HA nanoparticles (Cu–DMSA–HA NPs)

To synthesize the Cu-DMSA-HA and Cu-DMSA-PEG NPs, the CuSO₄ solution (10 mg/mL,

1 mL) and the HA/PEG solution (10 mg/mL, 500 μ L) were mixed in 10 mL deionized water by stirring for 10 minutes (min) until homogeneity was achieved. Subsequently, a DMSA solution (10 mg/mL, 1 mL, prepared in DMF) was added dropwise to the mixture and stirred for 2 h at room temperature to form Cu-DMSA-HA and Cu-DMSA-PEG NPs. The pure NPs were obtained through centrifugation (8000 rpm, 15 min) and washing with deionized water for 3 times, followed by dialysis for two days by using a 10000D molecular weight dialysis bag, and finally freeze-dried for storage.

hCu-DMSA-HA and Cu-DMSA-PEG NPs were dispersed in water at concentration of 0.5 mg/mL. The resulting dispersions were then mixed with a cyanine 5 (Cy 5) solution (100 μ L, 0.2 mg/mL) and stirred continuously for 24 h to facilitate the electrostatic adsorption of the fluorescent dye onto the nanoparticle surface. Subsequently, the mixtures underwent hyperfiltration, followed by two washes with deionized water to yield Cy 5-labeled Cu-DMSA-HA and Cu-DMSA-PEG NPs. In addition, the filtrate solutions were also collected to quantify the encapsulated Cy 5 content using UV-vis spectroscopy.

S1.3 Characterization of Cu-DMSA-HA and Cu-DMSA-PEG NPs

The size and polydispersity index (PDI) of Cu-DMSA-HA and Cu-DMSA-PEG NPs were measured by a dynamic light scattering (DLS) instrument (Nano-ZS 90, Malvern). Additionally, the morphology and size of Cu-DMSA-HA and Cu-DMSA-PEG NPs were observed using both transmission electron microscopy (TEM) and scanning electron microscope (SEM). The characteristic peak absorbance was measured with a UV-Vis spectrophotometer (Cry50), while the Cu concentration in Cu-DMSA-HA and Cu-DMSA-PEG NPs were quantified using inductively coupled plasma optical emission spectrometry (ICP-OES) (Agilent 725). The Cu-DMSA-HA and Cu-DMSA-PEG NPs were dispersed in PBS buffer, and their particle sizes were detected using DLS at the predetermined time points to evaluate their stability.

S1.4 Reactive oxygen species (ROS) generation and glutathione (GSH) depletion ability in solution

The ROS generation was quantified by using electron paramagnetic resonance (EPR) spectroscopy and a methylene blue (MB) assay. Specifically, the characteristic peak of MB at 664 nm decreased with the increasing concentration of ROS. For this experiment, a 2 mL phosphate-buffered saline (PBS) solution containing Cu-DMSA-HA and Cu-DMSA-PEG NPs, MB (0.5 μ g/mL), and H₂O₂ (100 μ M) was prepared, and co-incubated for 45 min. Changes in absorbance were measured by UV-Vis spectrometer. For GSH depletion assay, a 2 mL PBS solution containing Cu-DMSA-HA and Cu-DMSA-PEG NPs, MB (0.5 μ g/mL) and H₂O₂ (100 μ M) were mixed with GSH (5 mM), then co- incubated for 45 min. Changes in absorbance were measured by UV-Vis spectrometer.

S1.5 Cell culture

The PC-9 (Research Resource Identifier [RRID]: CVCL_B260), NCI-H460 (RRID: CVCL_0459), NCI-H322 (RRID: CVCL_1556), BEAS-2B (RRID: CVCL_0168), A549 (RRID: CVCL_0023), and NCI-H1975 (RRID: CVCL_1511) cell lines were purchased from Zhongqiao Xinzhou Biotechnology (Shanghai, China) in 2023. All cell lines were

authenticated by short tandem repeat (STR) profiling and confirmed to be mycoplasma-free prior to use.

PC-9, NCI-H460, and NCI-H1975 cells were cultured in Roswell Park Memorial Institute 1640 (RPMI-1640) medium (PM150110; Procell, Wuhan, China). NCI-H322, BEAS-2B, and A549 cells were cultured in Dulbecco's modified eagle medium (DMEM) (PM150210; Procell, Wuhan, China). Both types of culture media were supplemented with 10% fetal bovine serum (FBS; 164210; Procell, Wuhan, China) and 1% penicillin-streptomycin (C0222; Beyotime, Shanghai, China). All cells were maintained in a humidified incubator (Thermo Fisher Scientific, Waltham, MA, USA) at 37 °C with 5% CO₂.

S1.6 Cell viability assay

S1.6.1 CCK-8 assay

Logarithmically growing cells were seeded into 96-well plates at a density of 8×10^3 cells per well. After 24 h of incubation, cells were treated with varying concentrations (0, 5, 10, 20, 30, and 40 $\mu\text{g/mL}$) of Cu-DMSA-HA or Cu-DMSA-PEG NPs, respectively. Following a further 24 h incubation, 100 μL of culture medium containing 10% CCK-8 solution (Cat# C0046; Beyotime, Shanghai, China) was added to each well. The plates were then incubated at 37 °C in the dark for 30 min, and the optical density (OD) values were measured using a microplate reader (Infinite 200 Pro; Tecan, Männedorf, Switzerland) to determine cell viability.

S1.6.2 Live/dead assay

The PC-9 cells with a density of 70% were seeded in 96-well plates and cultured for 24 h. Cells were subsequently treated with PBS (control), Cu-DMSA-PEG NPs (30 $\mu\text{g/mL}$), or Cu-DMSA-HA NPs (30 $\mu\text{g/mL}$) for an additional 24 h. Following this, cells were incubated with Calcein-AM and propidium iodide (PI) at 37°C for 30 min in the dark. Fluorescence signals were then observed and imaged using an inverted fluorescence microscope (NIB-610; Nikon, Tokyo, Japan).

S1.7 Cellular uptake assay of Cu-DMSA-PEG NPs and Cu-DMSA-HA NPs

To assess the cellular uptake of Cu-DMSA-PEG and Cu-DMSA-HA NPs, PC-9 cells were seeded into confocal culture dishes at a density of 1×10^5 cells per dish and incubated at 37°C for 24 h. Subsequently, Cy 5-labeled Cu-DMSA-PEG NPs (30 $\mu\text{g/mL}$) or Cu-DMSA-HA NPs (30 $\mu\text{g/mL}$) were added to the culture medium, respectively. Cells were incubated with the two NPs for 2 and 12 h, respectively. Following incubation, nanoparticle-treated cells washed with PBS, and the cell nuclei were stained with 4',6-diamidino-2-phenylindole (DAPI, a blue fluorescence DNA-binding dye, for 10 min, and the cellular uptake was visualized using a confocal laser scanning microscope (CLSM; Eclipse Ti2-E with A1R; Nikon, Tokyo, Japan).

S1.8 Cell transfection

A siRNA specifically targeting CD44 (sequence: 5'-CCUCCCAGUAUGACAUATT-3') was synthesized by GenePharma (Shanghai, China) and dissolved in RNase-free water to a final stock concentration of 20 μM , following the manufacturer's instructions. PC-9 cells in the logarithmic growth phase were seeded into 6-well plates at a density of 2×10^5 cells per

well. After 24 h of incubation, the culture medium was replaced with fresh medium, and transfection was performed using FanRi-Trans transfection reagent (FanRi-Trans CE; FanRi® company, Xiamen, China). Cells were then incubated for an additional 48 h prior to subsequent analysis.

S1.9 Flow cytometry

S1.9.1 Apoptosis, cell cycle, ROS and $\Delta\psi_m$ assays

PC-9 and NCI-H1975 cells in the logarithmic growth phase were seeded into 6-well plates at a density of 2×10^5 cells per well. After 24 h of incubation, the culture medium was replaced with fresh medium containing PBS (control), Cu-DMSA-PEG (30 $\mu\text{g}/\text{mL}$), or Cu-DMSA-HA (30 $\mu\text{g}/\text{mL}$). After an additional 24-hour treatment, cells were harvested for subsequent flow cytometric analyses.

Apoptotic PC-9 and NCI-H1975 cells were identified using an Annexin V-FITC and PI kit (KGA1300-100; KeyGEN, Nanjing, China), staining was performed according to the manufacturer's instructions. For cell cycle analysis, cells were fixed in 75% ethanol and subsequently stained with a DNA content detection reagent (KGA511; KeyGEN, Nanjing, China). Mitochondrial membrane potential ($\Delta\psi_m$) was assessed using the JC-1 dye (KGA603; KeyGEN, Nanjing, China), and intracellular ROS levels were measured using a commercial ROS assay kit (C1300-2; Pulilai, Beijing, China). All samples were analyzed using a flow cytometer (LSRFortessa; BD Biosciences, USA) and the acquired data were processed with FlowJo software (version 10.8.1).

S1.9.2 Cellular uptake assays of PC-9 and NCI-H1975 cells

PC-9 and NCI-H1975 cells in the logarithmic growth phase were seeded into 6-well plates at a density of 2×10^5 cells per well and incubated for 24 h. The culture medium was then replaced with Cy 5-labeled Cu-DMSA-PEG (30 $\mu\text{g}/\text{mL}$), or Cy 5-labeled Cu-DMSA-HA (30 $\mu\text{g}/\text{mL}$). After 12 h of incubation, cells were then harvested and analyzed using a flow cytometer to assess the intracellular uptake of Cy 5-labeled NPs. The mean fluorescence intensity of Cy 5 was recorded and used as a quantitative indicator of nanoparticle internalization.

S1.10 Cell proliferation assay

S1.10.1 EdU assay

PC-9 and NCI-H1975 cells were seeded into 24-well plates at a density of 5×10^4 cells per well and incubated for 24 h. The culture medium was replaced with fresh complete medium containing PBS (control), Cu-DMSA-PEG (30 $\mu\text{g}/\text{mL}$), or Cu-DMSA-HA (30 $\mu\text{g}/\text{mL}$). After 24 h of treatment, 20 μM EdU working solution (Beyotime, Shanghai, China) was added to each well and incubated at 37°C for 2 h. Following incubation, cells were fixed with 4% paraformaldehyde (C0071S; Beyotime, Shanghai, China) for 15 min and permeabilized with 0.3% Triton X-100 (36317ES60; Yeasen, Shanghai, China) for 20 min. The cells were then incubated with the Click-iT reaction cocktail in the dark for another 30 min. After washing three times with PBS, cell nuclei were counterstained with DAPI for 10 min. Finally, EdU-positive cells were observed and imaged using a fluorescence microscope (NIB-610;

Nikon, Tokyo, Japan).

S1.10.2 Colony formation assay

PC-9 and NCI-H1975 cells were seeded into 6-well plates at a density of 2,000 cells per well and incubated for 24 h. The medium was then replaced with fresh medium containing PBS (control), Cu-DMSA-PEG (30 µg/mL), or Cu-DMSA-HA (30 µg/mL). After 24 h of treatment, the medium was removed and replaced with drug-free fresh medium. Cells were then cultured for an additional 10 days, with medium changes every 3 days. At the end of the incubation period, cell colonies were fixed with 4% paraformaldehyde (P0099-3L; Beyotime, Shanghai, China) for 15 min and stained with 0.1% crystal violet solution (C0121-100ml; Beyotime, Shanghai, China) for 20 min. Images of stained colonies were captured, and the number of colonies was quantified using ImageJ software (version 10.8.1).

S1.11 Cell invasion and migration assays

S1.11.1 Wound healing assay

PC-9 and NCI-H1975 cells were seeded into 6-well plates at a density of 2×10^5 cells per well and cultured until approximately 90% confluency was reached. A straight scratch (“wound”) was made across the cell monolayer using a sterile 200 µL pipette tip. Detached cells were gently removed by washing with PBS, followed by replacement of the culture medium with fresh medium containing PBS (control), Cu-DMSA-PEG (30 µg/mL), or Cu-DMSA-HA (30 µg/mL). Subsequently, cells were incubated at 37°C, and wound area images were captured at 0 and 24 h using a light microscope (NIB-610; Nikon, Tokyo, Japan). The wound area was quantified using ImageJ software (version 10.8.1), and the migration rate was calculated as:

$$\text{Migration rate (\%)} = \frac{\text{wound area (0 h)} - \text{wound area (24 h)}}{\text{wound area (0 h)}} \times 100\%$$

S1.11.2 Transwell assay

PC-9 and NCI-H1975 cells were pretreated with PBS (control), Cu-DMSA-PEG (30 µg/mL), or Cu-DMSA-HA (30 µg/mL) in complete medium for 24 h. After treatment, the cells were harvested and resuspended in serum-free medium. They were then seeded into the upper chambers of Transwell inserts with 8.0 µm pore size polycarbonate membranes (Cat. No. 3422; Corning, Corning, NY, USA) at a density of 5×10^4 cells per well to perform migration assays. For the invasion assay, Matrigel (BL5597B; Corning, Corning, NY, USA) was diluted 1:8 in serum-free medium, and 60 µL of the diluted solution was added to the upper chamber. The chambers were then incubated at 37°C for 3 h to allow the formation of a thin gel layer prior to cell seeding. For both assays, the lower chambers were filled with complete medium containing 10% FBS as a chemoattractant.

After 24 h of incubation, non-migrated or non-invaded cells on the upper surface of the membrane were gently removed with a cotton swab. Cells on the lower surface were fixed with 4% paraformaldehyde for 15 min and stained with 0.1% crystal violet for 15 min. Images were then captured under a light microscope, and the number of migrated or invaded cells was quantified using ImageJ software (version 10.8.1).

S1.12 Western blot assay

PC-9 and NCI-H1975 cells were treated with PBS (control), Cu-DMSA-PEG (30 µg/mL), or Cu-DMSA-HA (30 µg/mL) in complete medium for 48 h. After treatment, the cells were harvested and lysed using a total protein extraction kit (C510003-0050; Sangon, Shanghai, China) according to the manufacturer's protocol. Protein concentrations were determined using a bicinchoninic acid (BCA) protein assay kit (P0010S; Beyotime, Shanghai, China).

Equal amounts of protein (10 µg per lane) were loaded and separated by sodium dodecyl sulfate–polyacrylamide gel electrophoresis (SDS-PAGE) using 10% gels for CD44 and 12.5% gels (PG112; Epizyme, Shanghai, China) for GPX4. Proteins were subsequently transferred onto polyvinylidene difluoride (PVDF) (0.45 µm; IPVH00010; Millipore, Billerica, MA, USA) membranes that had been pre-activated in methanol for 10 min. Following the transfer, the membranes were blocked with a rapid blocking buffer (PS108P; Epizyme, Shanghai, China) for 15 min at room temperature. The membranes were then incubated overnight at 4°C with primary antibodies diluted 1:1000: anti-CD44 (Cat No. 15675-1-AP; Proteintech, Wuhan, China) and anti-GPX4 (A02059-1; Boster, Wuhan, China). After washing three times with Tris-buffered saline containing 0.1% Tween-20 (TBST), the membranes were incubated with horseradish peroxidase (HRP)-labeled Goat Anti-Rabbit IgG (H+L) (1:2000; BA1039; Boster, Wuhan, China) at room temperature for 1.5 h. Following three additional TBST washes, protein bands were visualized using the Omni-enhanced chemiluminescence (ECL) ultra-sensitive chemiluminescence substrate (SQ201; Epizyme, Shanghai, China) and imaged with a Tanon imaging system (Tanon 5200CE; Tanon, Shanghai, China).

S1.13 Measurement of GSH and oxidized glutathione (GSSG) levels

PC-9 and NCI-H1975 cells were treated with PBS (control), Cu-DMSA-PEG (30 µg/mL), or Cu-DMSA-HA (30 µg/mL) in complete medium for 24 h. Following treatment, cells were harvested and lysed using a GSH/GSSG assay kit (S0053; Beyotime, Shanghai, China) in accordance with the manufacturer's protocol. Lysates were centrifuged at 10,000 × g for 10 min at 4°C, and supernatants were collected for further analysis. Total glutathione levels were determined by mixing samples with the assay working solution and incubating at room temperature. For specific quantification of GSSG, GSH was masked with a scavenger reagent, and GSSG levels were measured via an enzymatic recycling assay. Absorbance was recorded using a microplate reader, and the concentrations of GSH and GSSG were calculated against a standard curve. The GSH/GSSG ratio was used to assess the cellular redox status.

S1.14 C11-BODIPY Staining

Lipid peroxidation was detected using the fluorescent probe C11-BODIPY 581/591 (S0043S; Beyotime, Shanghai, China). PC-9 and NCI-H1975 cells were treated with PBS, Cu-DMSA-PEG (30 µg/mL), Cu-DMSA-HA (30 µg/mL), DMSO, Cu-DMSA-PEG+ferrostatin-1 (Fer-1), or Cu-DMSA-HA+Fer-1. Fer-1 was dissolved in DMSO to prepare a 2 mM stock solution. Cells were pretreated with Fer-1 (2 µM) for 1 hour prior to the addition of NPs, followed by co-incubation for 24 h. After treatment, fluorescence images were acquired using an inverted fluorescence microscope (NIB-610; Nikon, Tokyo, Japan). Lipid ROS levels were quantified by flow cytometry (LSRFortessa; BD Biosciences,

USA). Cell viability was measured using a microplate reader (Infinite 200 Pro; Tecan, Männedorf, Switzerland).

S1.15 Half-maximal inhibitory concentration (IC₅₀) Determination

PC-9 and NCI-H1975 cells were seeded in 96-well plates at a density of 8×10^3 cells per well and allowed to adhere overnight. Cells were treated with various concentrations of Cu–DMSA–HA NPs (0.001, 0.01, 0.1, 1, 10, and 100 $\mu\text{g}/\text{mL}$) or cisplatin (0.001, 0.01, 0.1, 1, 10, and 100 μM) for 72 h. Cell viability was assessed using the CCK-8 assay. The IC₅₀ was calculated by nonlinear regression analysis using GraphPad Prism (version 10.1.2).

S1.15.1 IC₅₀-Normalized Dose Comparison Assay

To compare cytotoxicity within clinically relevant dosing ranges, PC-9 and NCI-H1975 cells were treated with Cu–DMSA–HA or cisplatin at 0.5 \times , 1 \times , 1.5 \times , and 2 \times of their respective IC₅₀ values. Cell viability was measured at 24 h, 48 h, and 72 h post-treatment using the CCK-8 assay.

S1.15.2 Fixed-Dose Comparison Assay

In the fixed-dose comparison experiment, Cu–DMSA–HA was applied at a concentration of 30 $\mu\text{g}/\text{mL}$, a dose previously verified to be non-toxic to normal lung epithelial cells. Cisplatin was applied at its IC₅₀ concentration. Cell viability was determined at 24 h, 48 h, and 72 h after treatment using the CCK-8 assay.

S1.16 Transcriptomic RNA sequencing (RNA-seq) analysis

S1.16.1 Transcriptomic RNA-seq

PC-9 cells were seeded in 6-well plates at a density of 2×10^5 cells per well and incubated for 24 h. The culture medium was subsequently replaced with fresh medium containing either PBS (control) or Cu-DMSA-HA (case; 30 $\mu\text{g}/\text{mL}$), followed by a further 48-hour incubation. Total RNA was isolated using TRIzol reagent (Thermo Fisher Scientific, USA) according to the manufacturer's instructions. Extracted RNA samples were then processed for mRNA transcriptome sequencing on the Illumina platform (APEX BIO, Shanghai, China).

S1.16.2 Differentially expressed genes (DEGs) analysis

DEGs between the Cu-DMSA-HA group and the control group were identified using the “limma” package in R (version 4.1.3). Genes with an adjusted p value < 0.05 and an absolute \log_2 fold change ($|\log_2 \text{FC}| > 1$) were defined as significantly differentially expressed.

S1.16.3 Gene Ontology (GO) and Kyoto Encyclopedia of Genes and Genomes (KEGG) enrichment analysis

GO and KEGG enrichment analyses were performed to identify significantly enriched biological processes (BP), cellular components (CC), molecular functions (MF), and pathways related to metabolism and signal transduction. DEGs with $\log_2 \text{FC} > 1$ were defined as upregulated, while those with $\log_2 \text{FC} < -1$ was defined as downregulated. GO and KEGG analyses were conducted using the “clusterProfiler” package in R (version 4.1.3).

S1.17 Single-cell RNA sequencing (scRNA-seq) analysis

S1.17.1 ScRNA-seq data acquisition and processing

Human non-small cell lung cancer (NSCLC) scRNA-seq data (GSE207422) were obtained from the Gene Expression Omnibus (GEO, <https://www.ncbi.nlm.nih.gov/geo/>) database. Datasets were selected based on the inclusion criteria of samples collected prior to surgery without exposure to chemotherapy, targeted therapy, immunotherapy, or other biological treatments. Data integration and batch effect correction were performed using the “Harmony” R package. Subsequent quality control, normalization, visualization, dimensionality reduction, and clustering were conducted with the “Seurat” R package. Quality control criteria were applied to exclude low-quality cells based, defined by the following thresholds: (1) total unique molecular identifiers (UMIs) \leq 1,000; (2) number of detected genes \leq 500; (3) mitochondrial gene percentage $>$ 20%. Cells failing to meet these criteria were excluded, while the remaining high-quality cells were retained for downstream analysis.

Gene expression data were normalized, followed by principal component analysis (PCA) for dimensionality reduction. Graph-based clustering was performed to identify cell subpopulations, and the results were visualized using uniform manifold approximation and projection (UMAP).

S1.17.2 Cellular subpopulation annotation

Cell subpopulations were annotated by identifying cluster-specific marker genes using the “FindAllMarkers” function in Seurat. Subsequent automated cell type prediction was then performed with the “SingleR” R package, employing the HumanPrimaryCellAtlasData as the reference dataset. To improve annotation accuracy, predictions were manually refined by cross-referencing established marker genes from the literature.

S1.17.3 Copy number variation (CNV) analysis

To infer putative tumor cell subpopulations, CNV analysis was conducted using the “inferCNV” R package, with endothelial cells designated as the reference (normal) population. Relative gene expression levels for each target cell were computed against the reference group, enabling the generation of CNV heatmaps that visualize large-scale chromosomal amplifications and deletions at single-cell resolution.

S1.17.4 AddModuleScore

Gene sets related to DNA replication, cell cycle, and ferroptosis were obtained from the Molecular Signatures Database (MSigDB; <https://www.gsea-msigdb.org/gsea/msigdb>). The “AddModuleScore” function in the Seurat R package was applied to assess the activity of these gene sets at the single-cell level. This function calculates a module score for each cell by averaging the expression levels of genes within the gene set and subtracting the average expression of control gene sets with comparable expression levels.

S1.18 Animal experiments

This study was reviewed and approved by the Ethics Committee of Shanghai Pulmonary Hospital (Approval No. K22-390) and conducted in accordance with the institutional guidelines for the care and use of laboratory animals, consistent with the National Institutes of Health Guide for the Care and Use of Laboratory Animals. Six-week-old BALB/c nude mice

were purchased from Model Organisms Center (Shanghai, China). The mice were housed in a specific pathogen-free (SPF) facility under controlled conditions: 21 – 22°C temperature, 39 – 50 % humidity, and a 12-hour light/dark cycle.

S1.18.1 Hemocompatibility assay

Whole blood (1 mL) was collected from the BALB/c nude mice and centrifuged at 2,000 rpm for 10 min to isolate red blood cells (RBCs). The RBCs were washed and diluted with PBS to a final volume of 10 mL. For the hemolysis assay, 0.2 mL of the diluted RBC suspension was mixed with 0.8 mL of deionized water (positive control), PBS (negative control), or Cu-DMSA-HA at various concentrations (0.01, 0.05, 0.1, 0.2, 0.5, 1, 2, and 5 mg/mL). All mixtures were incubated at room temperature for 4 h. The morphology and lysis of RBCs were subsequently observed and recorded to evaluate the hemocompatibility of Cu-DMSA-HA.

S1.18.2 Tissue targeting distribution

BALB/c nude mice were subcutaneously injected with 2×10^6 PC-9 cells into the right flank. Once tumor volumes reached approximately 100 mm³, mice were randomly allocated into three groups (n = 5 per group) and intravenously administered 100 μL of free Cy5 (10 nmol), Cy5-labeled Cu-DMSA-PEG NPs (2 mg/kg, containing 10 nmol Cy5), or Cy5-labeled Cu-DMSA-HA NPs (2 mg/kg, containing 10 nmol Cy5). Whole-body fluorescence imaging was performed at 0, 1, 2, 4, 6, 8, and 24 h post-injection using an *in vivo* imaging system (IVIS) imaging (NightOwl II LB 983; Berthold, Germany) to assess biodistribution and tumor-targeting capabilities of the nanomaterials. At 24 h, 48 h, and 72 h post-injection, mice were sacrificed, and major organs including the heart, liver, spleen, lungs, kidneys, and tumors were harvested for *ex vivo* fluorescence imaging. Quantitative analysis of radiant efficiency was performed using consistent region-of-interest (ROI) settings to assess nanoparticle accumulation and clearance in tumor and non-target tissues. In addition, fluorescence imaging of tissue cryosections was performed to visualize the cellular-level distribution of Cy5-labeled NPs.

S1.18.3 Pharmacokinetic (PK) Study

To evaluate the *in vivo* PK behavior of the NPs, Cy5-labeled Cu-DMSA-PEG and Cu-DMSA-HA NPs were administered intravenously (IV) to BALB/c mice (female, 6 weeks) at a dose of 2 mg/kg. At predetermined time points (0, 0.083, 0.25, 0.5, 1, 2, 4, 8, 24, and 48 h) post-injection, approximately 10 μL of blood was collected from the retro-orbital plexus into heparinized tubes (n = 3 mice per group per time point). Plasma was obtained by centrifugation at 4,000 rpm for 10 min and stored at –80 °C until analysis.

The Cu concentration in plasma was quantified by ICP–OES (Agilent 7800) after acid digestion with 1% HNO₃. PK parameters, including maximum plasma concentration (C_{\max}), time to reach C_{\max} (T_{\max}), terminal elimination half-life ($t_{1/2}$), mean residence time (MRT), area under the plasma concentration–time curve ($AUC_{0 \rightarrow t}$ and $AUC_{0 \rightarrow \infty}$), volume of distribution (V_{ss}), and plasma clearance (CL), were calculated using noncompartmental analysis (NCA) performed in GraphPad Prism (version 10.1.2).

S1.18.4 In Vivo therapeutic efficacy in subcutaneous xenograft nude mice

PC-9 cells were subcutaneously injected into the right flank of BALB/c nude mice at 2×10^6 cells each. When the tumor volume reached approximately 50 mm^3 , mice were randomly divided into three groups ($n = 5$ per group): PBS, Cu-DMSA-PEG, or Cu-DMSA-HA. Each group received a tail vein injection of $100 \mu\text{L}$ PBS or nanomaterial solutions at a concentration of 2 mg/kg . Treatments were administered once every three days for a total of five administrations. Tumor volumes and mouse body weights were monitored throughout the study to evaluate the treatment response and systemic tolerance. Tumor volume was calculated using the formula:

$$\text{Volume} = \frac{(\text{width}^2 \times \text{length})}{2}$$

End-point criteria included the following: (1) tumor volume exceeding 1500 mm^3 ; (2) more than 15% body weight loss from baseline or significant deterioration in health; (3) a maximum study duration of 25 days. At the end of the study, mice were euthanized, and tumors were excised, measured, and weighed.

S1.18.5 In Vivo therapeutic efficacy in a nude mouse lung metastasis model

PC-9 cells were injected into BALB/c nude mice via tail vein at 3×10^5 cells each. Five days after injection and micro-metastatic lesions had formed in the lungs, the mice were randomly divided into three groups ($n = 5$). Mice were administered tail vein injections of either $100 \mu\text{L}$ PBS or nanoparticle solutions (Cu-DMSA-PEG or Cu-DMSA-HA) at a dose of 2 mg/kg . Injections were given once every three days, for a total of five doses. Three days after the final injection, mice were euthanized, and lung tissues were collected for H&E staining. Tumor burden was quantified by calculating the proportion of tumor area relative to the total lung cross-sectional area using ImageJ software to assess therapeutic efficacy.

S1.18.6 In vivo therapeutic efficacy of Cu–DMSA–HA versus cisplatin in a subcutaneous xenograft nude mouse model

PC-9 cells (2×10^6 per mouse) were subcutaneously injected into the right flank of BALB/c nude mice. When the tumor volume reached approximately 50 mm^3 , mice were randomly divided into two groups ($n = 5$ per group): Cu–DMSA–HA and cisplatin. Mice received tail vein injections of Cu–DMSA–HA nanoparticles (2 mg/kg) or cisplatin (2 mg/kg) every three days, for a total of five administrations.

Tumor volumes and body weights were monitored throughout the treatment period to evaluate antitumor efficacy and systemic tolerance. After the fifth treatment cycle, mice were euthanized, and tumors were harvested for further analysis, including tumor volume, weight, and histological evaluation.

S1.18.7 Immunohistochemistry (IHC) assay

Following harvesting tumors, tissue sections were deparaffinized and subjected to antigen retrieval by overnight incubation in citrate buffer at 60°C . Endogenous peroxidase activity was quenched with 3% H_2O_2 for 10 min. To prevent non-specific binding, sections were blocked with 5% bovine serum albumin (BSA) for 1 hour at room temperature. Primary

antibody incubation was performed overnight at 4°C, followed by a 1-hour incubation with a incubated with HRP-conjugated secondary antibody at room temperature. Signal detection was carried out using DAB substrate, and nuclei were counterstained with hematoxylin. Images were obtained using a light microscope.

S1.18.8 Immunofluorescence (IF) assay

Tissue sections were first deparaffinized and subjected to antigen retrieval under the same conditions as described for IHC. Following antigen retrieval, sections were permeabilized with 0.1% Triton X-100 for 20 min and then blocked with 5% BSA at room temperature for 1 hour. Primary antibody incubation was performed overnight at 4°C, followed by PBS washes and a 1-hour incubation with the fluorescently labeled secondary antibody at room temperature. Nuclei were counterstained with DAPI. Fluorescence images were captured using a fluorescence microscope.

S1.19 Statistical analysis

Statistical analysis was performed using R (version 4.1.3) and GraphPad Prism (version 10.1.2). Comparisons between two groups were conducted using Student's t-test or Wilcoxon rank-sum test, and comparisons among three or more groups were performed using one-way analysis of variance (ANOVA) followed by appropriate post hoc tests. Data are presented as mean ± standard deviation (SD). Statistical significance was defined as *p<0.05, **p<0.01, ***p<0.001, and ****p<0.0001.

S2 Supplementary Figures

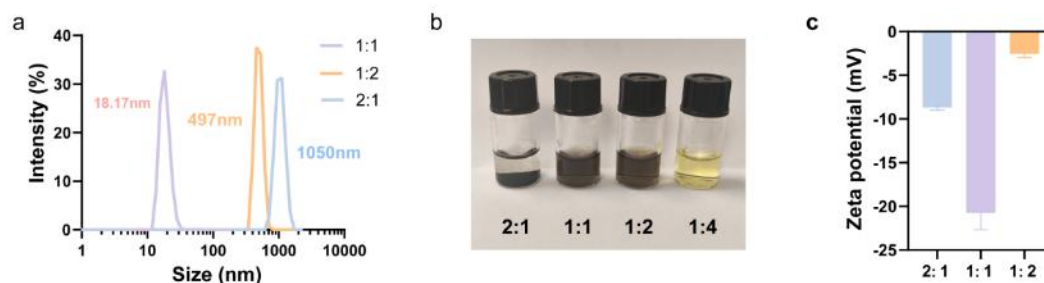


Fig. S1 (a) The size distribution, (b) the photo and (c) zeta potentials of nanoparticles (NPs) under different synthesis conditions

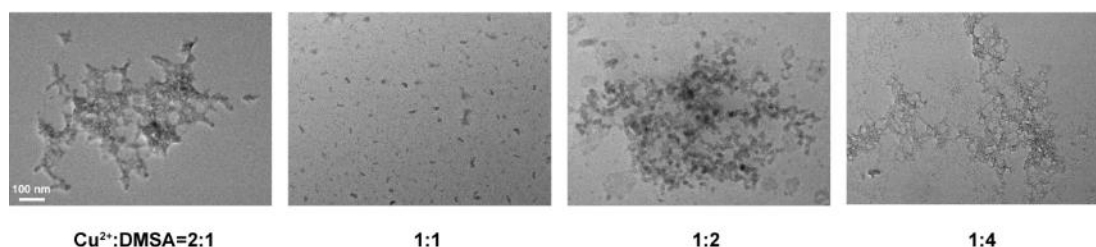


Fig. S2 Transmission electron microscopy (TEM) images of the nanoparticles formed by different proportions of Cu²⁺ and N,N-dimethyl-N-phenylsulfonylbisamine (DMSA). Scale bar: 100 nm

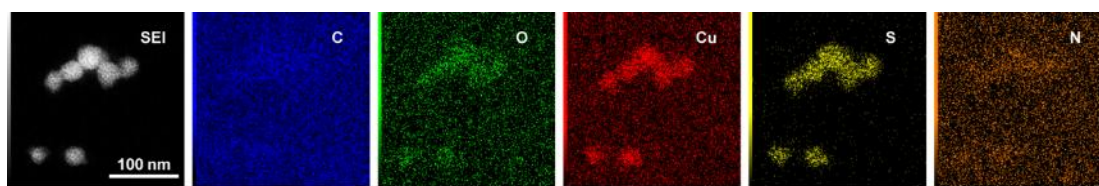


Fig. S3 High-angle annular dark scanning transmission electron microscopy (HAADF-STEM) image and elemental mapping images of the elements in the Cu-DMSA-PEG. Scale bar: 100 nm

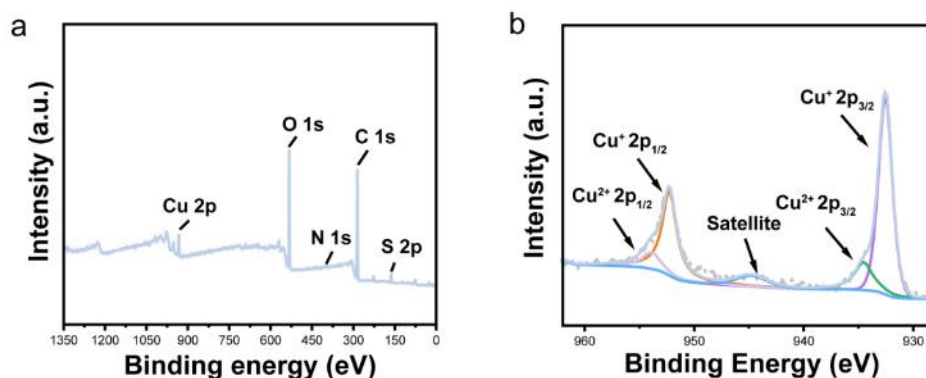


Fig. S4 (a) The X-ray photoelectron spectroscopy (XPS) survey scan and **(b)** of Cu-DMSA-PEG

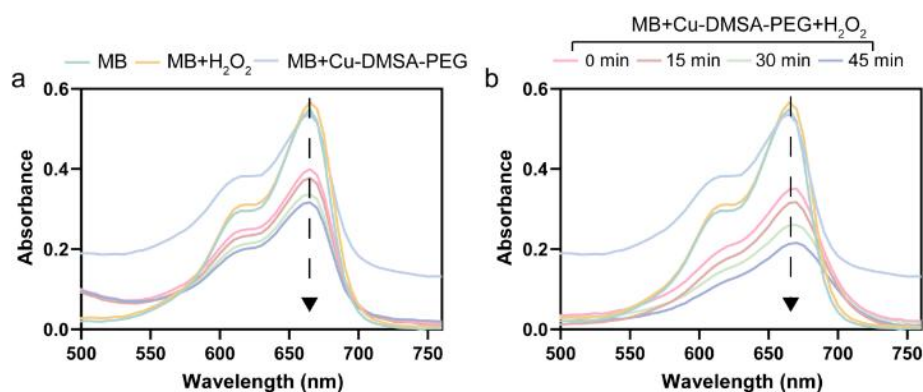


Fig. S5 (a) Time-dependent ultraviolet–visible (UV–Vis) spectra of methylene blue (MB) degradation catalyzed by Cu-DMSA-PEG and **(b)** Cu-DMSA-PEG + glutathione (GSH)

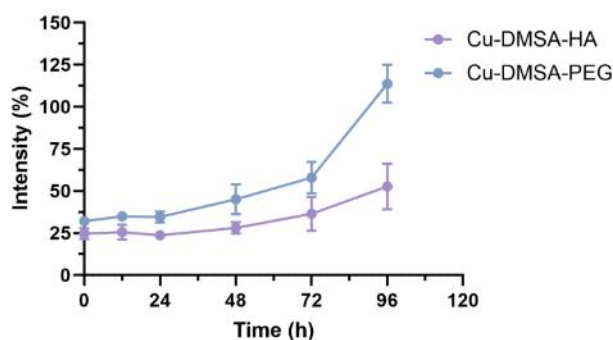


Fig. S6 The stability of Cu-DMSA-HA and Cu-DMSA-PEG NPs in phosphate-buffered saline (PBS)

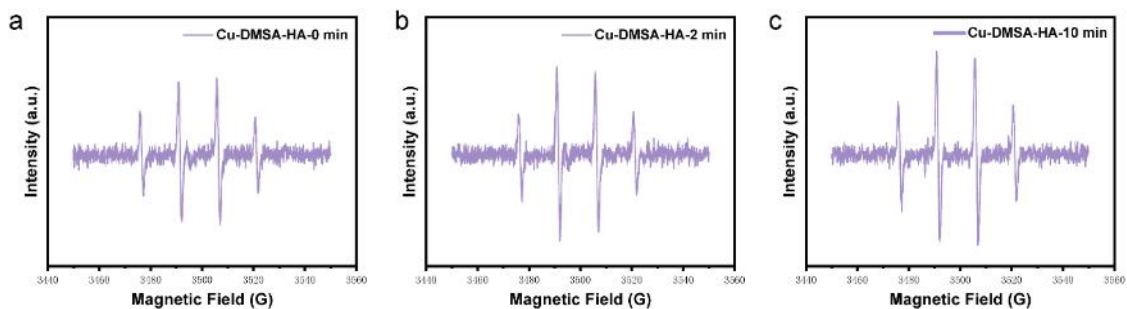


Fig. S7 EPR spectrum of ROS generation by Cu-DMSA-HA NPs in (a) 0 min, (b) 2 min and (c) 10 min

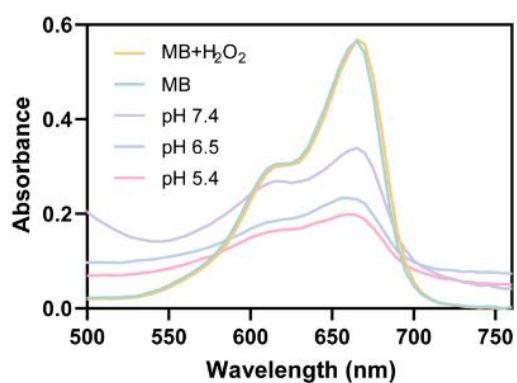


Fig. S8 UV-Vis spectra of MB degradation after incubation with Cu-DMSA-HA at pH 5.5, 6.5 and 7.4 in the presence of H₂O₂

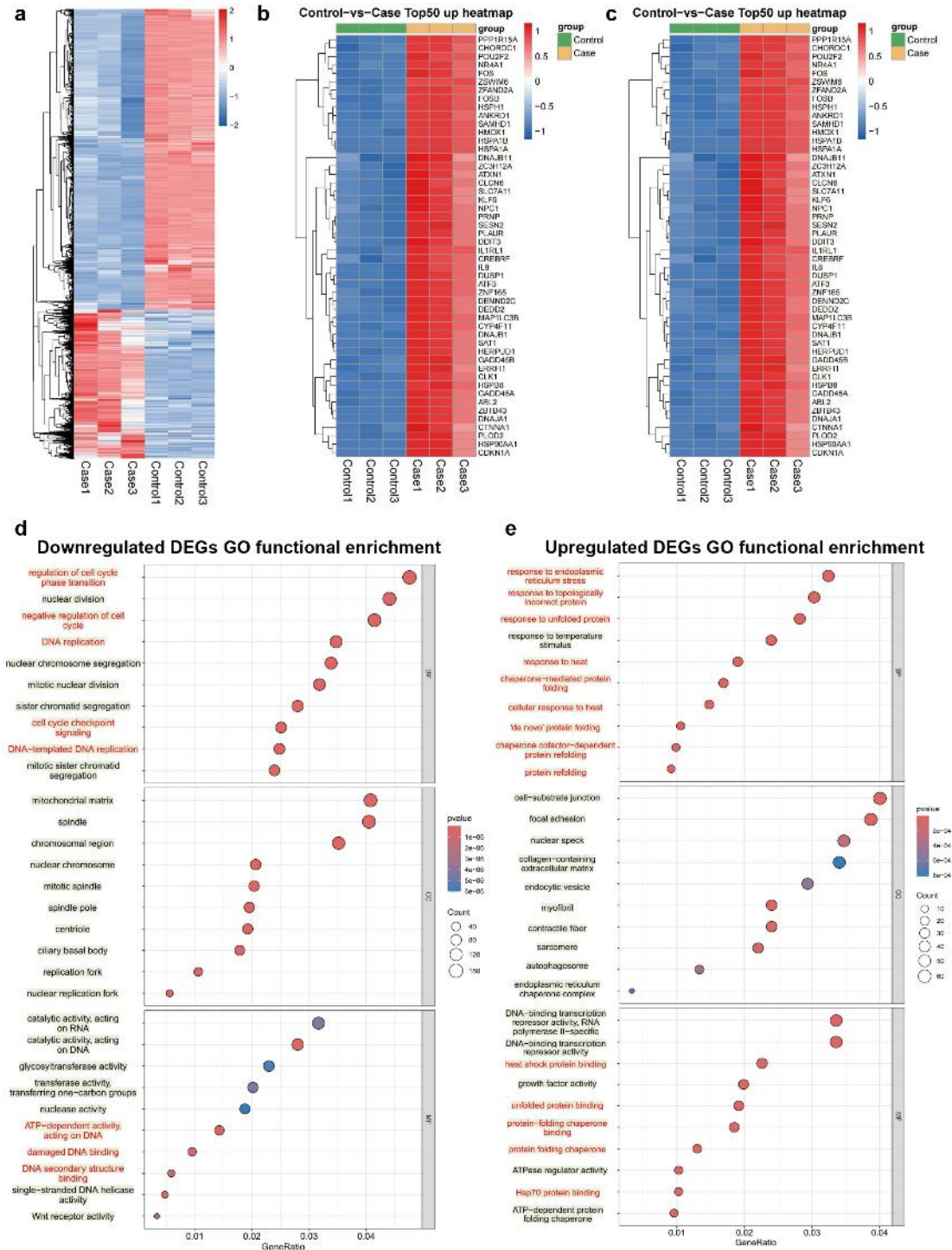


Fig. S9 Transcriptomic RNA sequencing (RNA-seq) analysis revealing the antitumor mechanisms of Cu-DMSA-HA. **(a)** Heatmap displaying differentially expressed genes (DEGs) between Cu-DMSA-HA treatment group (case) and PBS group (control). **(b)** Heatmap illustrating the top 50 downregulated DEGs in the case group compared with the control group. **(c)** Heatmap illustrating the top 50 upregulated DEGs in the case group compared with the control group. **(d)** Bubble plot showing Gene Ontology (GO) enrichment analysis of DEGs downregulated in the case group compared to the control group. **(e)** Bubble plot showing GO enrichment analysis of DEGs upregulated in the case group compared to the

control group

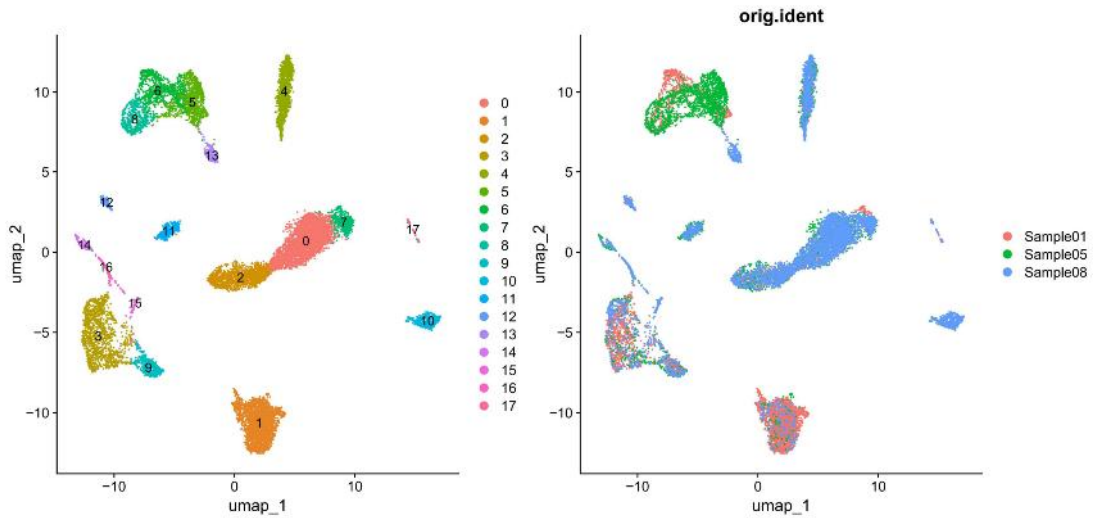


Fig. S10 UMAP visualization of single-cell RNA sequencing (scRNA-seq) data from non-small cell lung cancer (NSCLC) patient samples following batch effect correction using Harmony integration

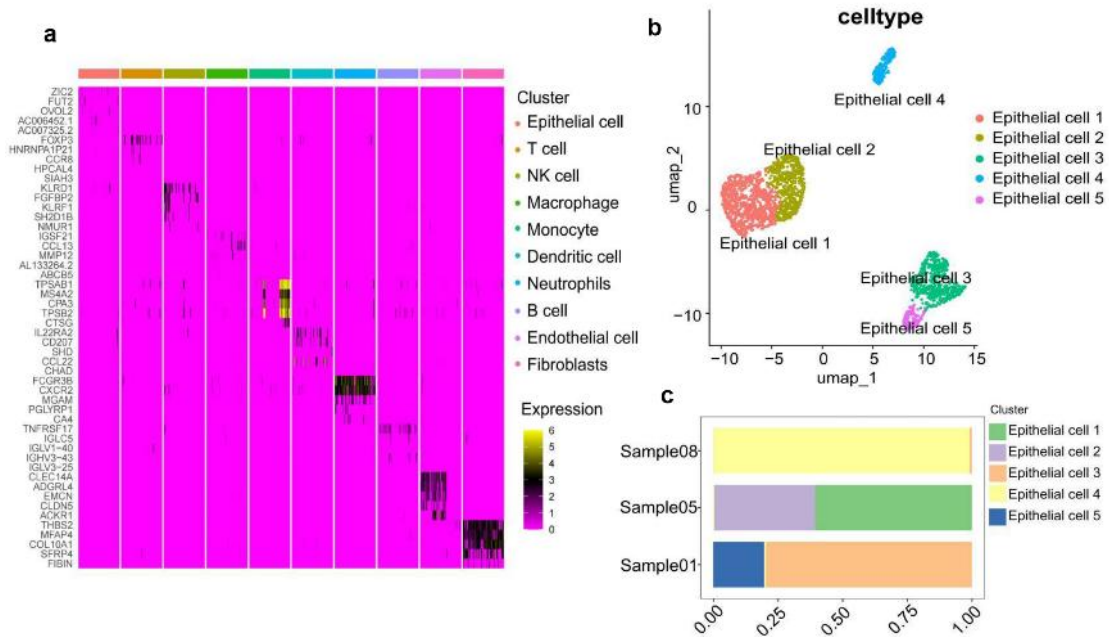


Fig. S11 (a) Heatmap displaying the top five marker genes for each identified cell cluster. **(b)** UMAP plot showing the five epithelial cell subclusters identified after further dimensionality reduction and clustering of epithelial cells. **(c)** Bar graph illustrating the distribution of epithelial cell subclusters across different NSCLC patient samples.

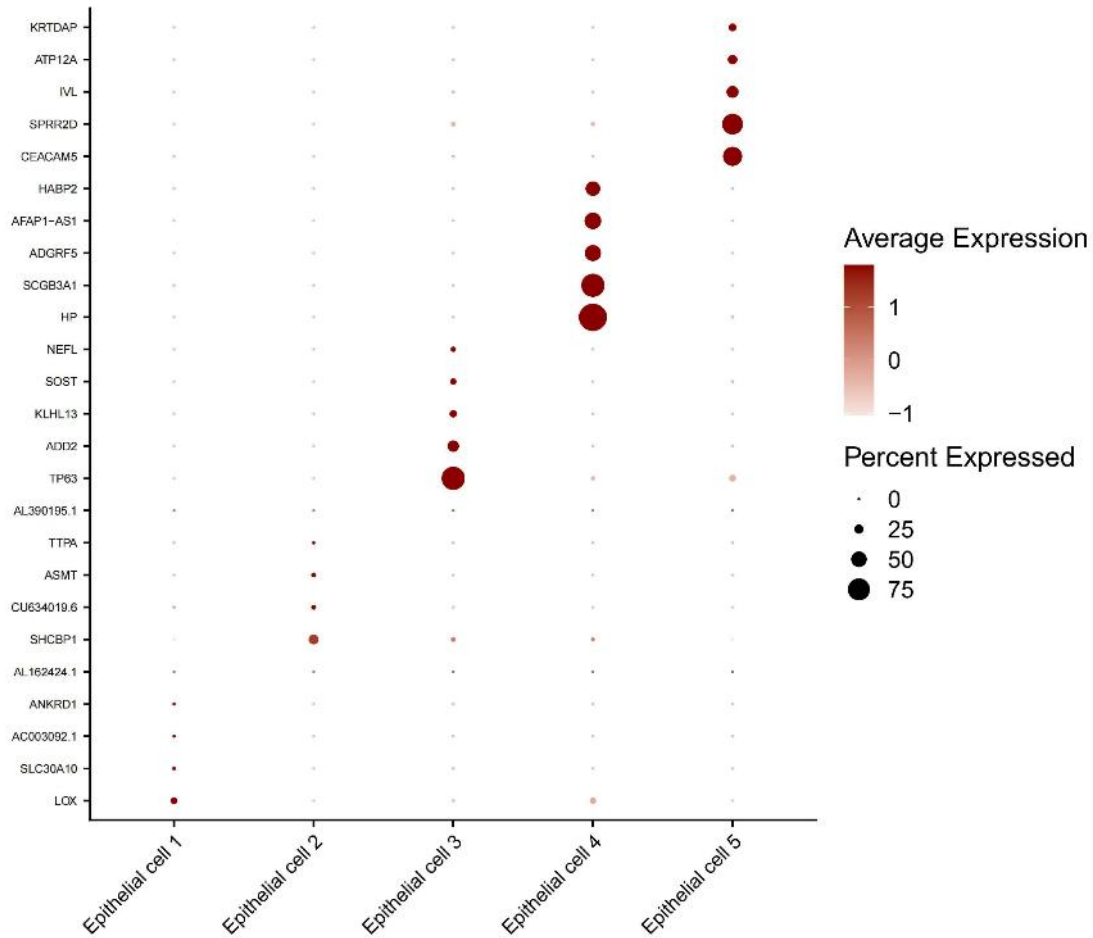


Fig. S12 Bubble plot displaying the top five marker genes for epithelial cell subclusters

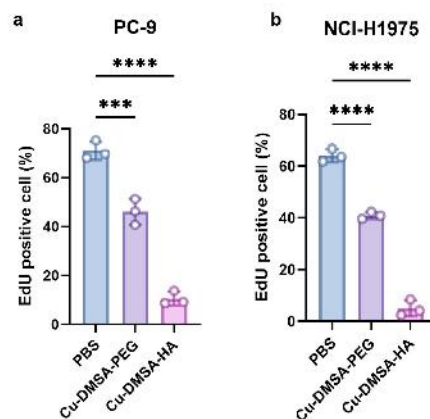


Fig. S13 5-ethynyl-2'-deoxyuridine (EdU) assay quantification analyzing comparing the DNA replication capabilities of (a) PC-9 and (b) NCI-H1975 cells following treatment with PBS, Cu-DMSA-PEG, or Cu-DMSA-HA (n = 3; mean ± standard deviation [SD]). One-way analysis of variance (ANOVA) followed by Tukey's post hoc test. ***P < 0.001; ****P < 0.0001

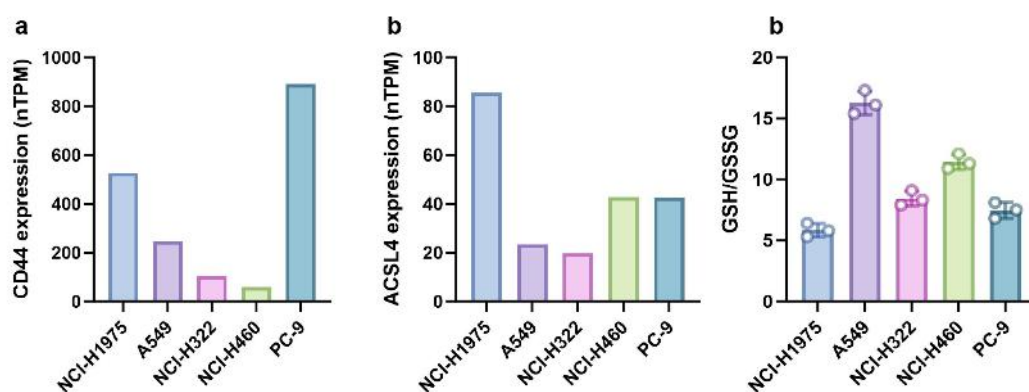


Fig. S14 (a) CD44 and (b) ACSL4 mRNA expression levels [normalized Transcripts Per Million (nTPM)] in five NSCLC cell lines (PC-9, NCI-H460, NCI-H322, A549, and NCI-H1975) retrieved from the Human Protein Atlas (HPA, <https://www.proteinatlas.org/>). (c) Intracellular GSH/oxidized glutathione (GSSG) ratios measured via biochemical assays, reflecting the antioxidative capacity of each cell line

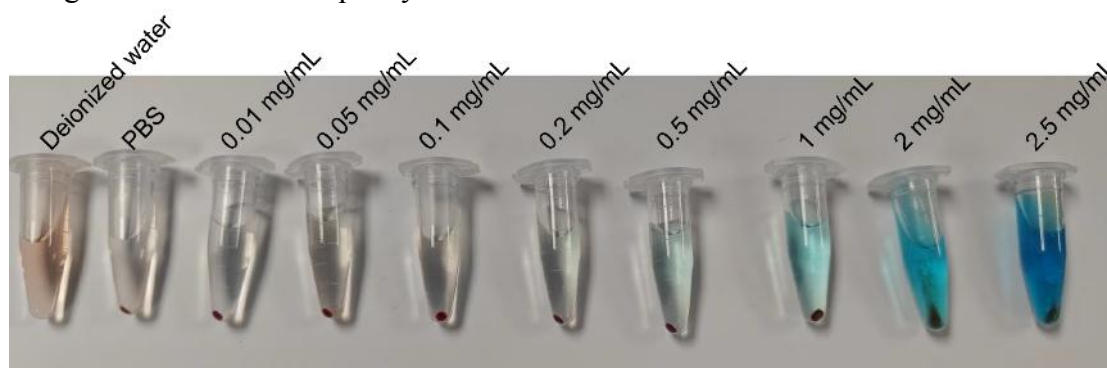


Fig. S15 Hemolysis assay of Cu-DMSA-HA at different concentrations

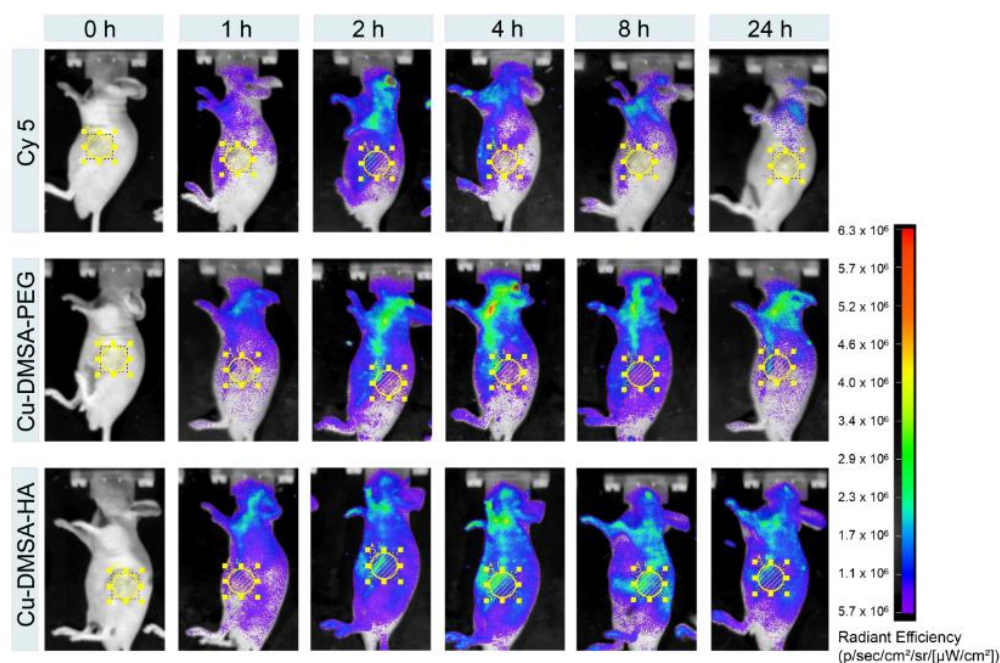


Fig. S16 *In vivo* fluorescence images of mice at 0, 1, 2, 4, and 8 h after intravenous injection

of Cy5, Cu-DMSA-PEG, or Cu-DMSA-HA

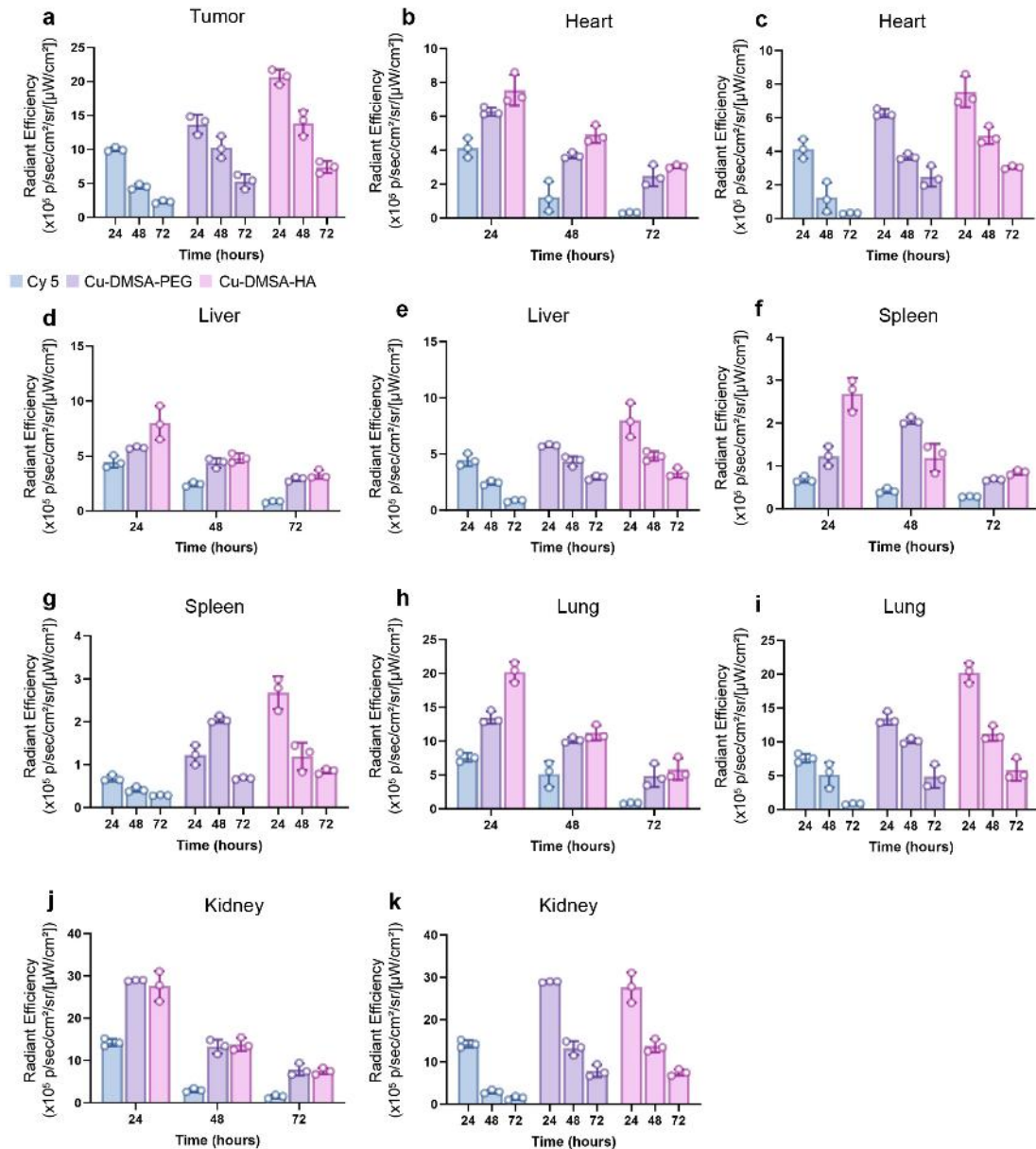


Fig. S17 (a) Quantitative analysis of tumor tissue radiant efficiency at 24 h, 48 h, and 72 h following intravenous injection of free Cy5, Cu-DMSA-PEG, or Cu-DMSA-HA NPs ($n = 3$; mean \pm SD). **(b-k)** Quantitative analysis of radiant efficiency in heart, liver, spleen, lung, and kidneys tissues at 24 h, 48 h, and 72 h following intravenous injection of free Cy5, Cu-DMSA-PEG, or Cu-DMSA-HA NPs ($n = 3$; mean \pm SD)

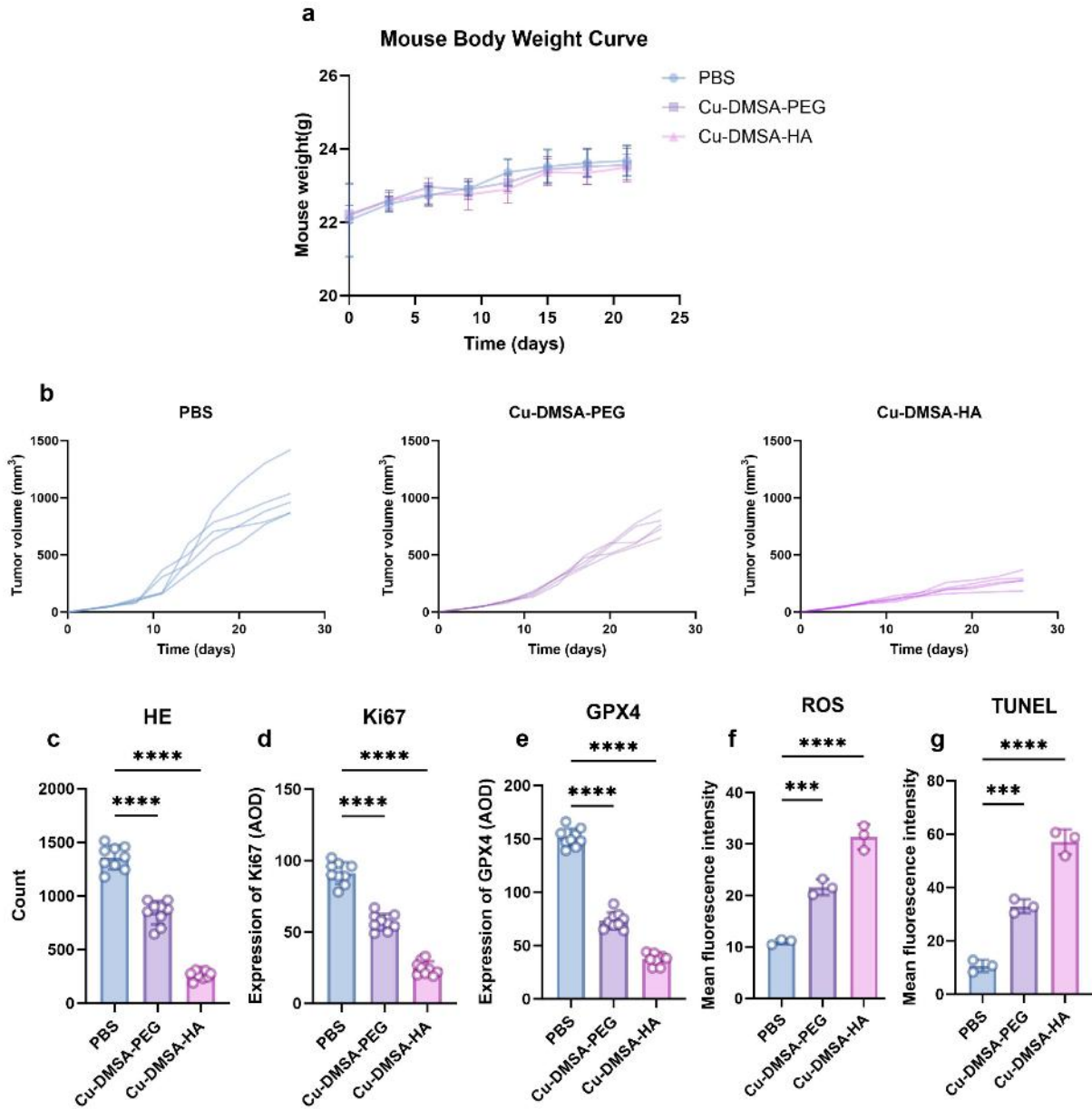


Fig. S18 (a) Body weight curves of mice during treatment (n = 5; mean ± SD). **(b)** Individual tumor growth curves of mice treated with PBS, Cu-DMSA-PEG, or Cu-DMSA-HA (n = 5; mean ± SD). Quantification analysis of **(c)** hematoxylin and eosin (H&E) staining and **(d-e)** immunohistochemistry (IHC) staining (Ki67 and GPX4) of tumor tissues following treatments with PBS, Cu-DMSA-PEG, or Cu-DMSA-HA (n = 3; mean ± SD). For each sample, three random high-power fields were selected for quantification. Statistical analysis was performed using one-way ANOVA followed by Tukey's post hoc test. Quantification of mean fluorescence intensity of immunofluorescence (IF) staining by **(f)** ROS and **(g)** terminal deoxynucleotidyl transferase dUTP nick end labeling (TUNEL) after treatment of tumor tissues with PBS, Cu-DMSA-PEG or Cu-DMSA-HA. One-way ANOVA followed by Tukey's post hoc test. ***P < 0.001; ****P < 0.0001

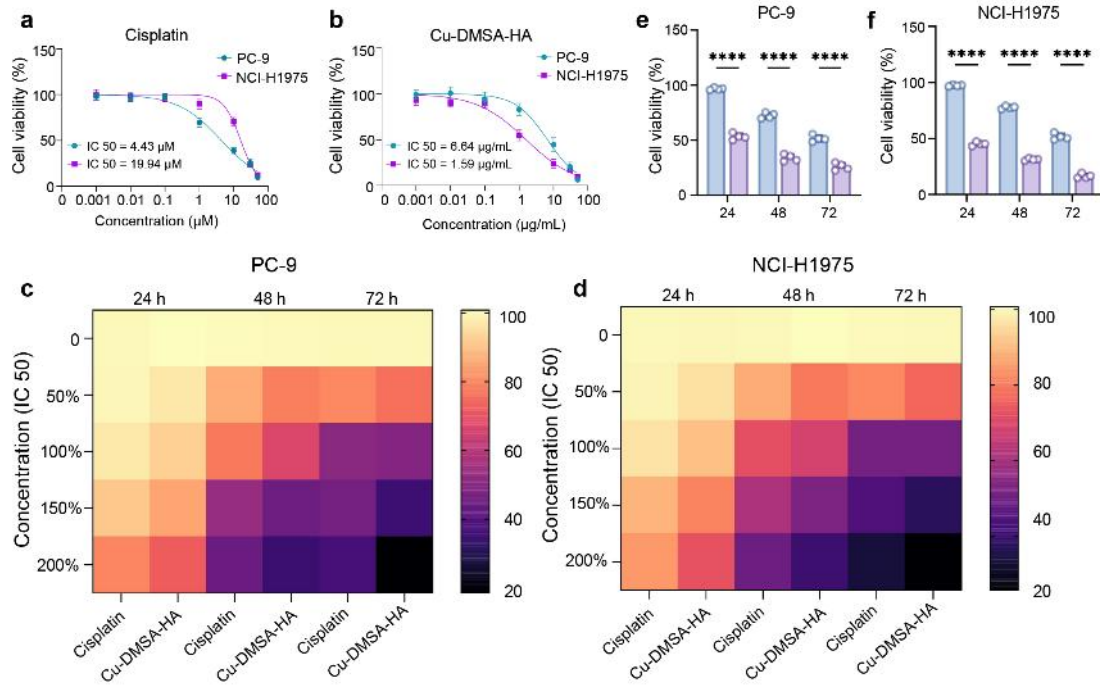


Fig. S19 Comparative *in vitro* and *in vivo* antitumor efficacy of Cu–DMSA–HA NPs and cisplatin in NSCLC. **(a–b)** Dose–response curves of **(a)** cisplatin (0.001, 0.01, 0.1, 1, 10, and 100 μM) and **(b)** Cu–DMSA–HA (0.001, 0.01, 0.1, 1, 10, and 100 μg/mL) in PC-9 and NCI-H1975 cells after 72 h treatment. **(c–d)** Heatmaps showing changes in cell viability of **(c)** PC-9 and **(d)** NCI-H1975 cells treated with the half-maximal inhibitory concentration (IC₅₀)-normalized doses (0.5×, 1×, 1.5×, and 2× IC₅₀) of Cu–DMSA–HA or cisplatin for 24 h, 48 h, and 72 h. **(e–f)** Fixed-dose comparison of **(e)** Cu–DMSA–HA (30 μg/mL) and **(f)** cisplatin (at IC₅₀ concentration) at different time points (24 h, 48 h, and 72 h) in PC-9 and NCI-H1975 cells

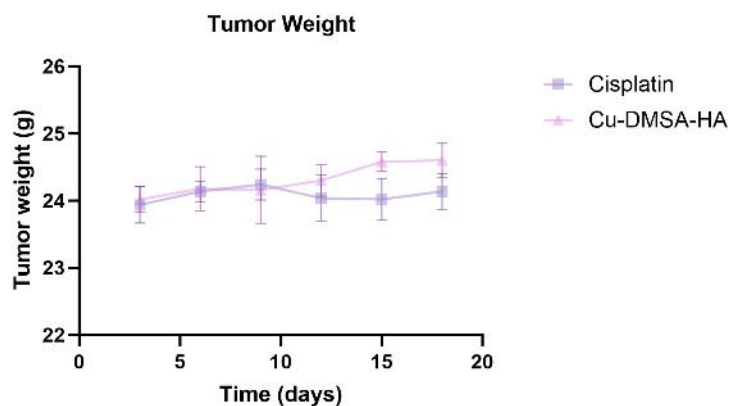


Fig. S20 Body weight curves of mice treated with cisplatin or Cu-DMSA-HA

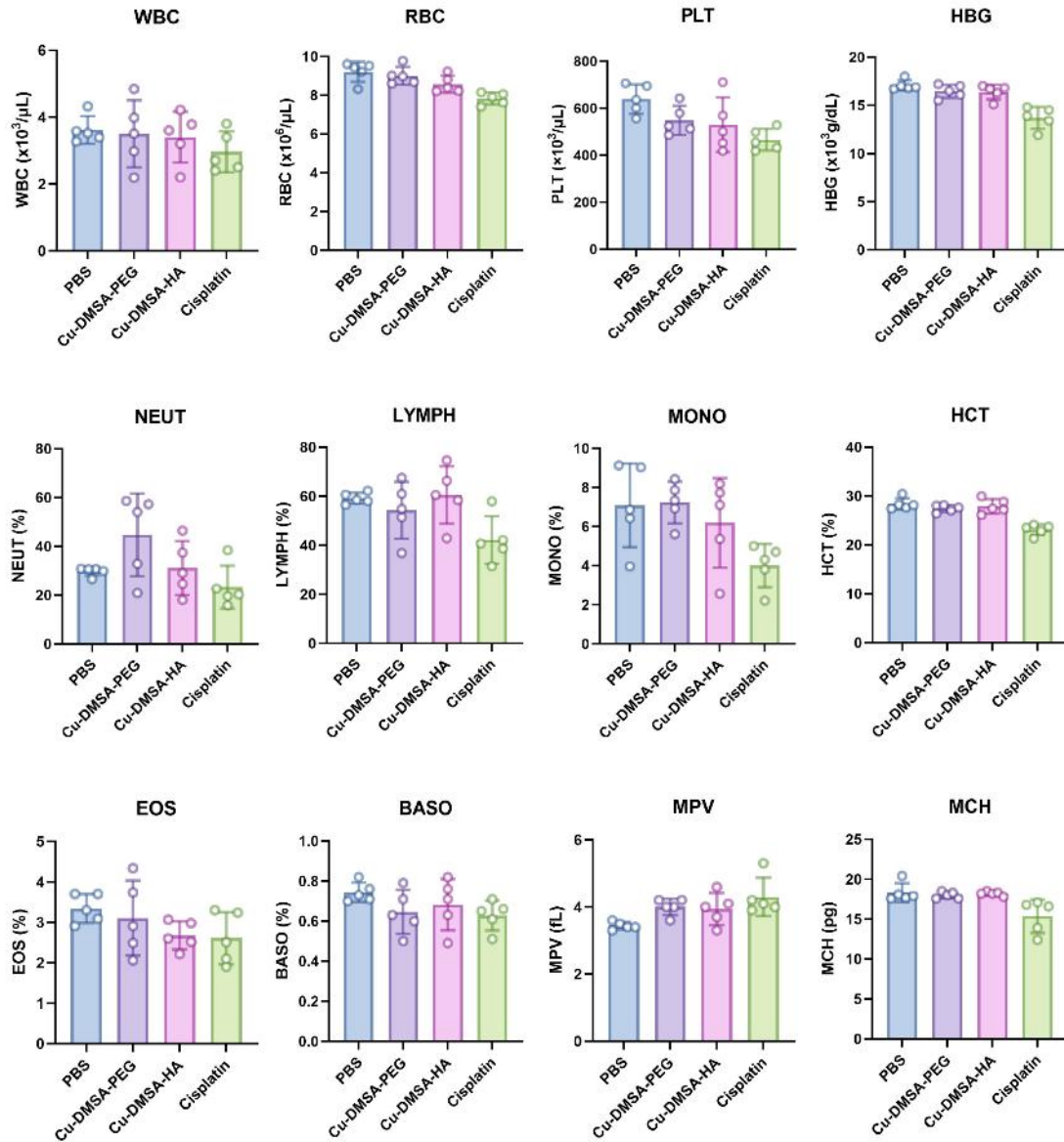


Fig. S21 Complete blood count (CBC) analysis of mice after treatment with PBS, Cu-DMSA-PEG, Cu-DMSA-HA or cisplatin. WBC, white blood cell count; RBC, red blood cell count; PLT, platelet count; HBG, hemoglobin; NEUT, neutrophils; LYMPH, lymphocytes; MONO, monocytes; HCT, hematocrit; EOS, eosinophils; BASO, basophils; MPV, mean platelet volume; MCH, mean corpuscular hemoglobin

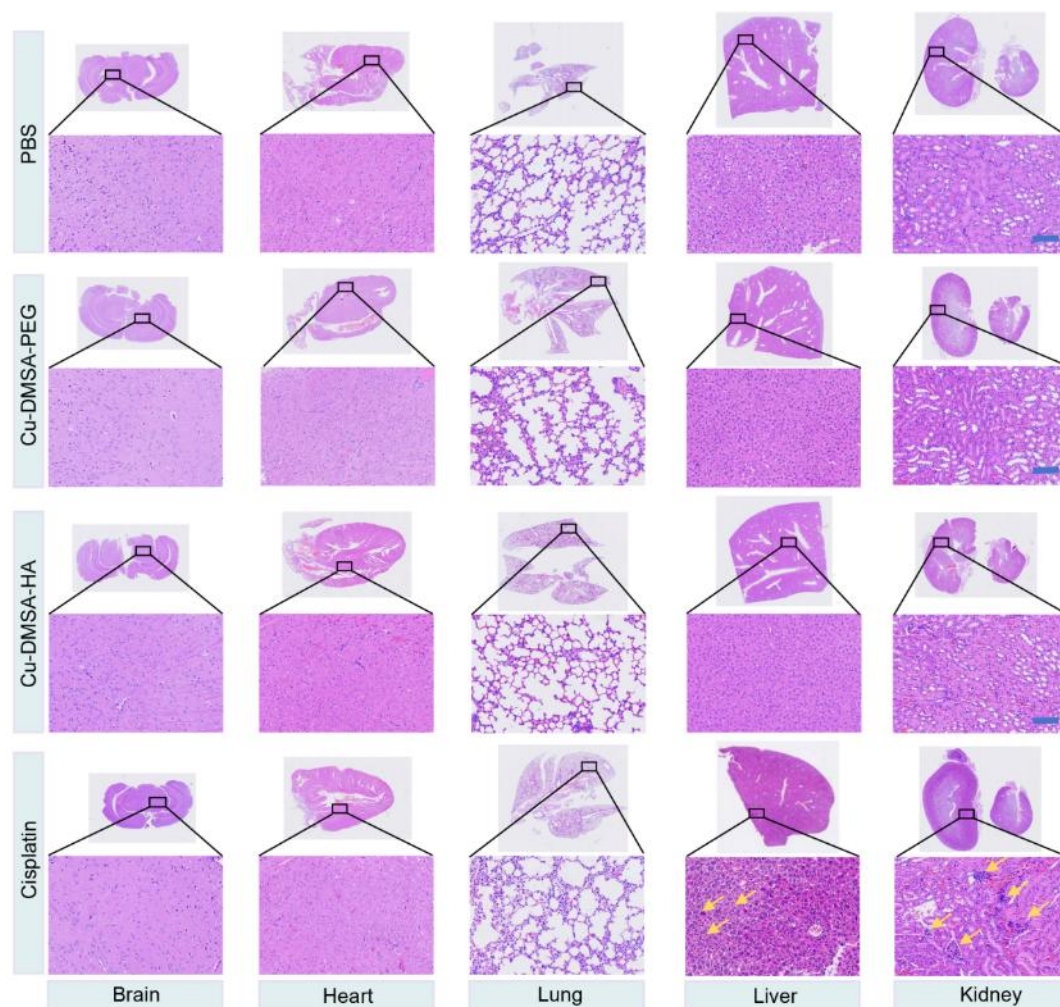


Fig. S22 Histological evaluation of major organs by H&E staining after treatment with PBS, Cu-DMSA-PEG, Cu-DMSA-HA or cisplatin.

S3 Supplementary Table

Table S1 Cu element was quantified by inductively coupled plasma optical emission spectrometry (ICP-OES)

Sample	Cu
Cu-DMSA-HA	29.82%
Cu-DMSA-PEG	38.70%

Table S2 Transcriptomic RNA sequencing (RNA-seq) differentially expressed genes results

ID	log2FoldChange	pval	padj	gene_name
ENSG00000000460	-1.176	3.711e-18	1.963e-17	C1orf112
ENSG00000001497	-1.079	2.373e-23	1.595e-22	LAS1L
ENSG00000001561	-1.371	1.608e-10	5.589e-10	ENPP4
ENSG00000001617	-1.346	6.4e-06	1.574e-05	SEMA3F

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ENSG00000002016	-1.26	5.469e-11	1.963e-10	RAD52
ENSG00000002587	-3.398	3.535e-16	1.693e-15	HS3ST1
ENSG00000002746	3.09	0.00522	0.009431	HECW1
ENSG00000002822	-1.279	6.233e-24	4.313e-23	MAD1L1
ENSG00000003249	-1.171	2.352e-11	8.648e-11	DBNDD1
ENSG00000003400	-2.379	3.519e-30	3.159e-29	CASP10
ENSG00000003756	1.103	3.56e-31	3.342e-30	RBM5
ENSG00000003989	-2.701	7.723e-21	4.627e-20	SLC7A2
ENSG00000004478	1.428	4.42e-45	6.883e-44	FKBP4
ENSG00000004660	-1.499	3.842e-17	1.93e-16	CAMKK1
ENSG00000004776	3.736	1.052e-06	2.775e-06	HSPB6
ENSG00000004777	-1.579	6.377e-13	2.571e-12	ARHGAP33
ENSG00000004799	-1.596	9.662e-06	2.339e-05	PKD4
ENSG00000004975	-1.307	2.604e-28	2.168e-27	DVL2
ENSG00000005001	2.116	8.506e-28	6.955e-27	PRSS22
ENSG00000005073	-3.527	7.196e-08	2.078e-07	HOXA11
ENSG00000005108	-1.805	1.025e-11	3.845e-11	THSD7A
ENSG00000005189	-1.225	4.189e-10	1.417e-09	AC004381.6
ENSG00000005243	1.641	0.01601	0.02684	COPZ2
ENSG00000005339	1.022	2.741e-11	1.003e-10	CREBBP
ENSG00000005469	-2.487	3.667e-59	8.632e-58	CROT
ENSG00000005801	1.561	5.096e-20	2.94e-19	ZNF195
ENSG00000005844	3.688	4.65e-05	0.0001061	ITGAL
ENSG00000005882	-1.34	4.521e-16	2.152e-15	PKD2
ENSG00000005884	-1.35	3.413e-35	3.814e-34	ITGA3
ENSG00000006015	-1.463	2.147e-13	8.92e-13	C19orf60
ENSG00000006016	1.408	1.338e-06	3.493e-06	CRLF1
ENSG00000006025	-3.798	1.237e-79	4.991e-78	OSBPL7
ENSG00000006282	-1.038	3.056e-17	1.541e-16	SPATA20
ENSG00000006283	6.239	3.009e-17	1.519e-16	CACNA1G
ENSG00000006459	2.36	5.51e-86	2.643e-84	JHDM1D
ENSG00000006468	-2.986	3.937e-05	9.037e-05	ETV1
ENSG00000006530	-1.273	4.903e-30	4.376e-29	AGK
ENSG00000006534	-1.519	2.065e-21	1.276e-20	ALDH3B1
ENSG00000006555	-2.601	1.287e-50	2.352e-49	TTC22
ENSG00000006606	4.204	1.338e-26	1.041e-25	CCL26
ENSG00000006607	-1.134	5.737e-20	3.303e-19	FARP2
ENSG00000006634	-2.749	5.538e-77	2.122e-75	DBF4
ENSG00000006652	1.647	2.926e-77	1.134e-75	IFRD1
ENSG00000006744	-2.385	3.859e-99	2.444e-97	ELAC2
ENSG00000006756	-1.273	6.927e-16	3.263e-15	ARSD
ENSG00000006837	1.731	8.279e-13	3.316e-12	CDKL3
ENSG00000007202	-1.149	9.904e-38	1.221e-36	KIAA0100
ENSG00000007237	1.699	0.0001225	0.0002679	GAS7

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ENSG00000007314	3.657	1.087e-05	2.62e-05	SCN4A
ENSG00000007350	3.523	0.003049	0.005691	TKTL1
ENSG00000007372	-1.331	1.926e-09	6.233e-09	PAX6
ENSG00000007376	-1.535	4.814e-25	3.497e-24	RPUSD1
ENSG00000007402	2.094	6.552e-11	2.34e-10	CACNA2D2
ENSG00000007520	-1.022	9.778e-09	3.005e-08	TSR3
ENSG00000007541	-1.77	8.459e-36	9.62e-35	PIGQ
ENSG00000007866	-1.323	3.864e-32	3.796e-31	TEAD3
ENSG00000007952	2.963	1.077e-08	3.297e-08	NOX1
ENSG00000007968	-3.879	1.056e-69	3.369e-68	E2F2
ENSG00000008056	3.482	0.00273	0.005132	SYN1
ENSG00000008118	5.661	2.207e-09	7.103e-09	CAMK1G
ENSG00000008128	1.4	2.702e-41	3.745e-40	CDK11A
ENSG00000008130	-1.441	3.565e-16	1.706e-15	NADK
ENSG00000008277	-2.375	1.271e-37	1.559e-36	ADAM22
ENSG00000008283	-1.599	2.397e-17	1.215e-16	CYB561
ENSG00000008294	1.593	1.809e-81	7.687e-80	SPAG9
ENSG00000008311	3.198	7.284e-06	1.784e-05	AASS
ENSG00000008323	-2.65	2.044e-34	2.219e-33	PLEKHG6
ENSG00000008324	-1.435	4.865e-09	1.531e-08	SS18L2
ENSG00000008516	4.694	2.188e-113	1.846e-111	MMP25
ENSG00000008517	4.634	7.762e-33	7.84e-32	IL32
ENSG00000008710	-1.56	1.257e-23	8.559e-23	PKD1
ENSG00000008838	-1.953	2.473e-59	5.905e-58	MED24
ENSG00000008853	-2.511	6.009e-59	1.395e-57	RHOBTB2
ENSG00000009413	-1.681	6.352e-57	1.381e-55	REV3L
ENSG00000009724	-2.563	4.143e-05	9.492e-05	MASP2
ENSG00000009780	-2.283	3.04e-10	1.04e-09	FAM76A
ENSG00000009950	-1.595	1.862e-05	4.393e-05	MLXIPL
ENSG00000009954	-1.277	1.434e-39	1.876e-38	BAZ1B
ENSG00000010072	1.362	2.907e-48	4.964e-47	SPRTN
ENSG00000010165	-1.265	4.658e-11	1.679e-10	METTL13
ENSG00000010219	-2.187	4.33e-23	2.863e-22	DYRK4
ENSG00000010292	-1.923	3.788e-77	1.462e-75	NCAPD2
ENSG00000010295	1.612	0.01771	0.02948	IFFO1
ENSG00000010310	2.282	2.764e-37	3.338e-36	GIPR
ENSG00000010322	-1.22	4.767e-20	2.755e-19	NISCH
ENSG00000010379	4.367	1.731e-11	6.412e-11	SLC6A13
ENSG00000010671	3.195	7.39e-08	2.132e-07	BTK
ENSG00000010704	-2.078	2.677e-30	2.419e-29	HFE
ENSG00000010803	-1.055	2.849e-11	1.041e-10	SCMH1
ENSG00000010818	1.175	3.634e-20	2.112e-19	HIVEP2
ENSG00000011007	-2.148	7.622e-70	2.437e-68	TCEB3
ENSG00000011021	2.856	2.074e-196	6.695e-194	CLCN6

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ENSG00000011143	-2.166	1.949e-22	1.255e-21	MKS1
ENSG00000011198	1.397	5.419e-25	3.926e-24	ABHD5
ENSG00000011332	-1.57	0.0001278	0.000279	DPF1
ENSG00000011376	-1.295	2.407e-19	1.345e-18	LARS2
ENSG00000011422	2.564	1.249e-199	4.369e-197	PLAUR
ENSG00000011426	-1.79	4.137e-25	3.012e-24	ANLN
ENSG00000011478	-1.473	1.105e-15	5.155e-15	QPCTL
ENSG00000011523	-2.421	2.701e-24	1.898e-23	CEP68
ENSG00000011638	-1.59	8.163e-05	0.0001818	TMEM159
ENSG00000012048	-2.183	2.556e-80	1.059e-78	BRCA1
ENSG00000012174	-1.03	1.112e-27	9.056e-27	MBTPS2
ENSG00000012232	-1.557	5.082e-20	2.933e-19	EXTL3
ENSG00000012660	1.524	9.002e-81	3.797e-79	ELOVL5
ENSG00000012779	-1.1	2.609e-27	2.088e-26	ALOX5
ENSG00000013016	-2.891	1.153e-18	6.25e-18	EHD3
ENSG00000013275	1.475	4.03e-59	9.448e-58	PSMC4
ENSG00000013375	1.204	3.735e-35	4.16e-34	PGM3
ENSG00000013441	3.705	0	0	CLK1
ENSG00000013503	-2.121	1.292e-56	2.791e-55	POLR3B
ENSG00000013523	-2.695	1.02e-71	3.411e-70	ANGEL1
ENSG00000013573	-2.67	2.096e-180	5.173e-178	DDX11
ENSG00000013810	-1.9	3.528e-66	1.031e-64	TACC3
ENSG00000014123	-1.78	1.818e-48	3.129e-47	UFL1
ENSG00000014138	-2.388	1.035e-58	2.393e-57	POLA2
ENSG00000014919	-1.26	1.283e-29	1.132e-28	COX15
ENSG00000015133	-2.115	1.147e-31	1.106e-30	CCDC88C
ENSG00000015520	5.052	1.752e-15	8.07e-15	NPC1L1
ENSG00000015532	-2.451	2.638e-67	7.978e-66	XYLT2
ENSG00000015568	1.163	3.438e-24	2.403e-23	RGPD5
ENSG00000015676	-1.256	1.027e-25	7.731e-25	NUDCD3
ENSG00000016082	-2.243	0.006905	0.01227	ISL1
ENSG00000016402	-3.651	1.248e-26	9.718e-26	IL20RA
ENSG00000016864	-2.728	2.181e-71	7.234e-70	GLT8D1
ENSG00000017260	1.135	4.642e-29	4.014e-28	ATP2C1
ENSG00000017373	-1.802	1.554e-20	9.177e-20	SRCIN1
ENSG00000018408	-1.383	6.815e-24	4.704e-23	WWTR1
ENSG00000018625	1.919	0.009226	0.01607	ATP1A2
ENSG00000019485	-1.313	2.077e-11	7.668e-11	PRDM11
ENSG00000019549	-3.13	1.018e-25	7.672e-25	SNAI2
ENSG00000020129	-2.277	3.361e-53	6.584e-52	NCDN
ENSG00000020256	-1.499	1.168e-32	1.171e-31	ZFP64
ENSG00000020577	1.21	2.101e-46	3.411e-45	SAMD4A
ENSG00000021762	-1.81	4.977e-11	1.791e-10	OSBPL5
ENSG00000022267	-1.543	0.01315	0.02236	FHL1

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ENSG00000022976	-2.27	4.433e-34	4.713e-33	ZNF839
ENSG00000023287	1.924	2.155e-49	3.815e-48	RB1CC1
ENSG00000023516	-1.507	2.994e-32	2.955e-31	AKAP11
ENSG00000023697	-1.103	3.566e-18	1.888e-17	DERA
ENSG00000023892	-2.408	4.422e-11	1.595e-10	DEF6
ENSG00000023909	2.024	9.272e-124	9.977e-122	GCLM
ENSG00000024422	-1.992	1.909e-24	1.351e-23	EHD2
ENSG00000024526	-2.301	4.877e-50	8.775e-49	DEPDC1
ENSG00000025039	-1.189	0.001149	0.002263	RRAGD
ENSG00000025156	-1.353	1.353e-15	6.273e-15	HSF2
ENSG00000025293	-1.555	4.325e-45	6.741e-44	PHF20
ENSG00000025434	-1.562	8.813e-17	4.343e-16	NR1H3
ENSG00000025770	-1.029	7.576e-07	2.021e-06	NCAPH2
ENSG00000026559	-2.601	5.522e-06	1.365e-05	KCNG1
ENSG00000026652	1.424	2.675e-14	1.164e-13	AGPAT4
ENSG00000026751	3.04	2.87e-14	1.247e-13	SLAMF7
ENSG00000026950	-1.547	1.527e-14	6.714e-14	BTN3A1
ENSG00000027001	-1.187	2.463e-17	1.247e-16	MIPEP
ENSG00000028277	4.431	1.017e-163	2.031e-161	POU2F2
ENSG00000028528	-1.51	3.509e-45	5.494e-44	SNX1
ENSG00000029534	-1.372	0.0001423	0.0003091	ANK1
ENSG00000029639	-1.581	5.695e-13	2.302e-12	TFB1M
ENSG00000029993	-1.444	2.777e-26	2.135e-25	HMGB3
ENSG00000030110	-2.947	5.689e-58	1.284e-56	BAK1
ENSG00000030419	-4.147	3.735e-82	1.62e-80	IKZF2
ENSG00000031081	1.807	1.947e-12	7.625e-12	ARHGAP31
ENSG00000031698	1.293	6.016e-37	7.152e-36	SARS
ENSG00000032219	1.534	6.868e-16	3.236e-15	ARID4A
ENSG00000033011	-1.011	1.038e-05	2.506e-05	ALG1
ENSG00000033122	1.116	0.003752	0.006912	LRRC7
ENSG00000033170	-1.392	1.11e-33	1.159e-32	FUT8
ENSG00000033627	1.539	2.297e-77	8.945e-76	ATP6V0A1
ENSG00000034533	-1.201	2.041e-12	7.98e-12	ASTE1
ENSG00000034677	1.733	1.601e-50	2.921e-49	RNF19A
ENSG00000034693	-1.242	5.356e-21	3.245e-20	PEX3
ENSG00000035141	-2.243	2.606e-91	1.43e-89	FAM136A
ENSG00000035499	-2.431	2.69e-55	5.568e-54	DEPDC1B
ENSG00000035862	-1.702	9.411e-91	5.031e-89	TIMP2
ENSG00000037042	-1.295	1.374e-10	4.802e-10	TUBG2
ENSG00000037749	-1.471	6.375e-08	1.847e-07	MFAP3
ENSG00000037757	-2.154	2.968e-63	7.947e-62	MR11
ENSG00000037897	-1.419	5.295e-15	2.386e-14	METTL1
ENSG00000037965	-2.653	5.815e-10	1.948e-09	HOXC8
ENSG00000038210	-1.082	2.993e-09	9.552e-09	PI4K2B

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ENSG00000038219	1.783	2.049e-22	1.318e-21	BOD1L1
ENSG00000038358	-1.383	2.927e-37	3.53e-36	EDC4
ENSG00000038382	1.433	8.238e-76	3.073e-74	TRIO
ENSG00000038427	5.386	8.893e-07	2.36e-06	VCAN
ENSG00000039523	-1.694	1.485e-19	8.394e-19	FAM65A
ENSG00000039987	4.272	4.022e-07	1.098e-06	BEST2
ENSG00000040531	-1.028	1.055e-10	3.716e-10	CTNS
ENSG00000040608	-3.071	1.399e-09	4.577e-09	RTN4R
ENSG00000040933	-1.253	4.166e-23	2.761e-22	INPP4A
ENSG00000041353	-2.481	1.047e-114	8.966e-113	RAB27B
ENSG00000041515	3.354	1.505e-13	6.309e-13	MYO16
ENSG00000041988	-1.668	9.987e-08	2.856e-07	THAP3
ENSG00000042062	1.842	1.064e-05	2.568e-05	FAM65C
ENSG00000042088	-2.513	2.45e-46	3.969e-45	TDP1
ENSG00000042317	-1.594	2.892e-05	6.707e-05	SPATA7
ENSG00000042429	1.37	1.163e-55	2.43e-54	MED17
ENSG00000043039	-2.399	3.129e-12	1.21e-11	BARX2
ENSG00000043143	-4.151	7.298e-172	1.612e-169	PHF15
ENSG00000043355	-3.713	4.229e-33	4.321e-32	ZIC2
ENSG00000043591	-3.304	0.002193	0.004178	ADRB1
ENSG00000044090	-1.545	3.777e-26	2.895e-25	CUL7
ENSG00000044115	2.412	5.181e-174	1.16e-171	CTNNA1
ENSG00000044459	-1.535	4.094e-12	1.572e-11	CNTLN
ENSG00000044574	2.65	1.346e-123	1.43e-121	HSPA5
ENSG00000047230	-2.29	6.261e-41	8.552e-40	CTPS2
ENSG00000047410	-1.018	1.844e-07	5.168e-07	TPR
ENSG00000047579	-1.09	4.576e-06	1.14e-05	DTNBP1
ENSG00000047597	-2.939	2.653e-19	1.481e-18	XK
ENSG00000047634	1.488	6.774e-32	6.572e-31	SCML1
ENSG00000047648	2.416	0.01043	0.01803	ARHGAP6
ENSG00000047662	2.159	0.003113	0.005801	FAM184B
ENSG00000047932	-1.17	2.433e-17	1.233e-16	GOPC
ENSG00000048028	-1.545	2.006e-29	1.759e-28	USP28
ENSG00000048052	2.578	3.968e-92	2.213e-90	HDAC9
ENSG00000048140	-1.107	1.193e-10	4.191e-10	TSPAN17
ENSG00000048342	-1.841	4.938e-07	1.338e-06	CC2D2A
ENSG00000048405	1.315	1.864e-22	1.201e-21	ZNF800
ENSG00000048462	4.133	0.0002991	0.0006292	TNFRSF17
ENSG00000048707	-2.074	2.546e-35	2.857e-34	VPS13D
ENSG00000048740	2.118	0.004287	0.007834	CELF2
ENSG00000049130	-3.059	2.096e-135	2.665e-133	KITLG
ENSG00000049192	1.451	0.0005749	0.001173	ADAMTS6
ENSG00000049239	-2.89	6.447e-140	8.658e-138	H6PD
ENSG00000049249	1.614	0.003076	0.005738	TNFRSF9

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ENSG00000049283	-4.249	1.065e-46	1.755e-45	EPN3
ENSG00000049541	-1.387	1.615e-26	1.253e-25	RFC2
ENSG00000049759	2.616	1.205e-121	1.241e-119	NEDD4L
ENSG00000049883	-1.593	5.769e-17	2.869e-16	PTCD2
ENSG00000050344	-2.15	3.939e-91	2.133e-89	NFE2L3
ENSG00000050438	-2.013	5.152e-05	0.0001171	SLC4A8
ENSG00000050628	2.994	0.003406	0.006307	PTGER3
ENSG00000050730	2.305	0.01616	0.02708	TNIP3
ENSG00000051108	4.399	1.322e-283	8.533e-281	HERPUD1
ENSG00000051180	-2.098	1.073e-14	4.762e-14	RAD51
ENSG00000051341	-1.304	8.507e-37	1.006e-35	POLQ
ENSG00000051382	-1.08	1.991e-24	1.408e-23	PIK3CB
ENSG00000051825	-2.58	1.359e-88	6.914e-87	MPHOSPH9
ENSG00000053108	-1.236	0.004665	0.008472	FSTL4
ENSG00000053438	2.24	7.12e-14	3.03e-13	NNAT
ENSG00000053770	-1.879	3.216e-59	7.613e-58	AP5M1
ENSG00000053900	-1.292	1.706e-16	8.269e-16	ANAPC4
ENSG00000054179	-1.569	6.521e-06	1.601e-05	ENTPD2
ENSG00000054267	1.757	1.384e-54	2.813e-53	ARID4B
ENSG00000054277	-1.069	1.641e-14	7.209e-14	OPN3
ENSG00000054282	-1.107	3.808e-13	1.557e-12	SDCCAG8
ENSG00000054523	1.155	1.18e-36	1.381e-35	KIF1B
ENSG00000054598	-3.21	1.556e-70	5.051e-69	FOXC1
ENSG00000054690	-1.613	4.301e-23	2.846e-22	PLEKHH1
ENSG00000054965	-1.27	1.045e-27	8.522e-27	FAM168A
ENSG00000055044	1.597	7.581e-37	8.974e-36	NOP58
ENSG00000055332	-1.349	1.595e-24	1.133e-23	EIF2AK2
ENSG00000055483	1.334	1.812e-51	3.384e-50	USP36
ENSG00000055609	1.121	9.924e-20	5.655e-19	KMT2C
ENSG00000056050	-1.786	1.489e-20	8.803e-20	C4orf27
ENSG00000056558	1.58	5.733e-06	1.417e-05	TRAF1
ENSG00000056661	-1.006	1.764e-07	4.949e-07	PCGF2
ENSG00000056998	-1.485	1.568e-09	5.112e-09	GYG2
ENSG00000057019	-1.167	2.504e-38	3.139e-37	DCBLD2
ENSG00000057593	5.158	2.931e-07	8.096e-07	F7
ENSG00000057657	2.686	3.666e-16	1.753e-15	PRDM1
ENSG00000057704	-2.338	1.568e-18	8.456e-18	TMCC3
ENSG00000057935	-1.009	2.627e-18	1.401e-17	MTA3
ENSG00000058056	-2.846	7.156e-78	2.813e-76	USP13
ENSG00000058063	1.174	2.536e-22	1.626e-21	ATP11B
ENSG00000058085	1.64	1.159e-71	3.869e-70	LAMC2
ENSG00000058453	-2.331	1.925e-24	1.362e-23	CROCC
ENSG00000058668	-1.146	3.184e-40	4.245e-39	ATP2B4
ENSG00000058673	1.402	2.767e-89	1.425e-87	ZC3H11A

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ENSG00000058729	-1.099	1.171e-20	6.954e-20	RIOK2
ENSG00000058866	1.931	2.937e-52	5.616e-51	DGKG
ENSG00000059377	2.603	0.00646	0.01152	TBXAS1
ENSG00000059378	-1.387	1.712e-31	1.636e-30	PARP12
ENSG00000059588	-1.333	1.053e-34	1.154e-33	TARBP1
ENSG00000059728	2.17	2.329e-56	4.988e-55	MXD1
ENSG00000059758	1.255	5.638e-36	6.456e-35	CDK17
ENSG00000059769	1.182	2.935e-13	1.207e-12	DNAJC25
ENSG00000060138	1.15	3.247e-10	1.108e-09	YBX3
ENSG00000060140	1.301	2.6e-14	1.132e-13	STYK1
ENSG00000060491	-1.71	2.257e-20	1.325e-19	OGFR
ENSG00000060642	-2.114	3.802e-08	1.121e-07	PIGV
ENSG00000060656	-1.803	5.764e-41	7.912e-40	PTPRU
ENSG00000060688	-1.08	1.228e-15	5.714e-15	SNRNP40
ENSG00000060718	3.758	0.001212	0.002383	COL11A1
ENSG00000060749	-1.315	8.998e-17	4.432e-16	QSER1
ENSG00000061273	-1.187	4.391e-40	5.84e-39	HDAC7
ENSG00000061938	-1.556	3.267e-48	5.568e-47	TNK2
ENSG00000062194	1.417	4.304e-56	9.122e-55	GPBP1
ENSG00000062282	-1.779	2.378e-22	1.526e-21	DGAT2
ENSG00000062524	3.062	0.01106	0.01904	LTK
ENSG00000062716	1.018	4.595e-40	6.102e-39	VMP1
ENSG00000062822	-1.61	3.424e-34	3.673e-33	POLD1
ENSG00000063127	-1.797	0.0143	0.02419	SLC6A16
ENSG00000063169	1.065	3.672e-10	1.247e-09	GLTSCR1
ENSG00000063438	2.919	1.477e-45	2.339e-44	AHRR
ENSG00000063761	-1.202	8.813e-15	3.934e-14	ADCK1
ENSG00000064042	-1.033	1.208e-42	1.745e-41	LIMCH1
ENSG00000064195	-3.337	1.037e-20	6.179e-20	DLX3
ENSG00000064300	3.211	0.01124	0.01933	NGFR
ENSG00000064309	-1.634	2.042e-10	7.052e-10	CDON
ENSG00000064607	-1.198	1.253e-27	1.016e-26	SUGP2
ENSG00000064703	-2.068	2.555e-43	3.792e-42	DDX20
ENSG00000064835	3.384	0.01041	0.01799	POU1F1
ENSG00000064933	-2.742	1.324e-31	1.271e-30	PMS1
ENSG00000065054	-1.56	5.083e-25	3.687e-24	SLC9A3R2
ENSG00000065057	-1.708	4.825e-18	2.539e-17	NTHL1
ENSG00000065308	-2.43	2.259e-117	2.06e-115	TRAM2
ENSG00000065320	-1.206	1.437e-25	1.074e-24	NTN1
ENSG00000065328	-3.453	3.352e-125	3.702e-123	MCM10
ENSG00000065357	-1.021	1.918e-14	8.386e-14	DGKA
ENSG00000065361	-2.535	9.121e-119	8.799e-117	ERBB3
ENSG00000065413	-1.209	0.01479	0.02495	ANKRD44
ENSG00000065457	-1.541	1.424e-33	1.477e-32	ADAT1

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ENSG00000065615	1.455	7.064e-37	8.38e-36	CYB5R4
ENSG00000065621	-1.253	2.573e-07	7.134e-07	GSTO2
ENSG00000065675	-3.036	8.355e-14	3.543e-13	PRKCQ
ENSG00000065833	1.678	1.201e-112	9.98e-111	ME1
ENSG00000065911	1.369	3.884e-61	9.834e-60	MTHFD2
ENSG00000065970	-3.13	1.663e-59	3.998e-58	FOXJ2
ENSG00000065989	-3.296	2.582e-28	2.152e-27	PDE4A
ENSG00000066056	5.547	7.846e-08	2.261e-07	TIE1
ENSG00000066248	-1.125	1.225e-06	3.209e-06	NGEF
ENSG00000066279	-2.533	1.666e-46	2.716e-45	ASPM
ENSG00000066336	3.047	0.00227	0.004317	SPI1
ENSG00000066422	1.526	3.364e-52	6.424e-51	ZBTB11
ENSG00000066583	-1.871	1.037e-29	9.19e-29	ISOC1
ENSG00000066629	-1.837	2.326e-09	7.476e-09	EML1
ENSG00000066735	-2.107	0.01522	0.02562	KIF26A
ENSG00000066923	-1.661	1.069e-11	4.007e-11	STAG3
ENSG00000067082	2.423	1.059e-174	2.436e-172	KLF6
ENSG00000067113	-1.361	6.659e-10	2.223e-09	PPAP2A
ENSG00000067141	-1.017	2.102e-06	5.377e-06	NEO1
ENSG00000067191	-1.221	7.819e-10	2.601e-09	CACNB1
ENSG00000067221	-2.741	3.551e-09	1.128e-08	STOML1
ENSG00000067334	1.822	9.17e-34	9.602e-33	DNTTIP2
ENSG00000067369	-1.001	3.88e-22	2.469e-21	TP53BP1
ENSG00000067715	1.637	5.582e-09	1.748e-08	SYT1
ENSG00000067798	2.611	1.303e-66	3.852e-65	NAV3
ENSG00000067992	-1.076	2.46e-08	7.349e-08	PDK3
ENSG00000068001	-4.405	3.941e-77	1.517e-75	HYAL2
ENSG00000068078	-2.737	6.475e-27	5.095e-26	FGFR3
ENSG00000068097	-2.21	3.456e-33	3.539e-32	HEATR6
ENSG00000068120	-1.099	4.999e-16	2.373e-15	COASY
ENSG00000068137	-1.669	1.829e-12	7.175e-12	PLEKHH3
ENSG00000068308	1.124	1.051e-12	4.191e-12	OTUD5
ENSG00000068366	1.351	9.186e-54	1.827e-52	ACSL4
ENSG00000068654	-1.533	5.378e-71	1.763e-69	POLR1A
ENSG00000068724	-1.978	4.882e-48	8.303e-47	TTC7A
ENSG00000068878	1.251	4.54e-44	6.884e-43	PSME4
ENSG00000068885	-1.086	9.34e-27	7.309e-26	IFT80
ENSG00000068976	2.451	1.658e-07	4.665e-07	PYGM
ENSG00000069011	-2.048	1.353e-49	2.402e-48	PITX1
ENSG00000069020	1.88	9.159e-55	1.877e-53	MAST4
ENSG00000069122	-1.405	1.144e-20	6.8e-20	GPR116
ENSG00000069248	-1.049	6.279e-18	3.284e-17	NUP133
ENSG00000069275	-1.642	6.612e-129	7.654e-127	NUCKS1
ENSG00000069399	-1.556	1.185e-11	4.433e-11	BCL3

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ENSG00000069431	4.021	8.162e-13	3.272e-12	ABCC9
ENSG00000069493	-3.026	2.941e-31	2.772e-30	CLEC2D
ENSG00000069667	1.687	1.471e-09	4.804e-09	RORA
ENSG00000069696	2.032	0.001131	0.00223	DRD4
ENSG00000069702	-4.059	4.359e-47	7.274e-46	TGFBR3
ENSG00000069712	-1.103	0.0006576	0.001332	KIAA1107
ENSG00000069812	-3.804	4.145e-15	1.879e-14	HES2
ENSG00000069956	1.105	1.879e-40	2.527e-39	MAPK6
ENSG00000069974	-1.433	1.037e-09	3.425e-09	RAB27A
ENSG00000069998	-1.881	2.591e-18	1.382e-17	CECR5
ENSG00000070010	1.67	2.651e-59	6.303e-58	UFD1L
ENSG00000070018	-1.213	1.801e-16	8.724e-16	LRP6
ENSG00000070159	-1.689	7.219e-49	1.262e-47	PTPN3
ENSG00000070190	2.194	1.747e-37	2.129e-36	DAPP1
ENSG00000070388	1.645	0.01065	0.01838	FGF22
ENSG00000070413	-1.969	5.029e-32	4.92e-31	DGCR2
ENSG00000070476	-1.339	5.514e-24	3.822e-23	ZXDC
ENSG00000070610	-1.088	3.034e-21	1.858e-20	GBA2
ENSG00000070614	-2.079	1.244e-148	1.951e-146	NDST1
ENSG00000070669	1.55	5.448e-60	1.335e-58	ASNS
ENSG00000070718	-2.241	2.657e-61	6.757e-60	AP3M2
ENSG00000070729	1.666	9.558e-16	4.465e-15	CNGB1
ENSG00000070731	-1.467	3.994e-07	1.091e-06	ST6GALNAC2
ENSG00000070886	3.921	0.002322	0.004405	EPHA8
ENSG00000070915	-3.186	0.003477	0.00643	SLC12A3
ENSG00000071051	-1.378	7.643e-20	4.376e-19	NCK2
ENSG00000071073	-1.558	3.913e-53	7.646e-52	MGAT4A
ENSG00000071246	-2.21	6.776e-10	2.261e-09	VASH1
ENSG00000071537	1.472	6.801e-62	1.761e-60	SEL1L
ENSG00000071539	-1.37	2.899e-30	2.614e-29	TRIP13
ENSG00000071564	-1.279	9.874e-32	9.537e-31	TCF3
ENSG00000071575	-2.621	5.768e-57	1.259e-55	TRIB2
ENSG00000071655	-1.403	4.071e-23	2.699e-22	MBD3
ENSG00000071909	-2.229	3.202e-05	7.403e-05	MYO3B
ENSG00000072134	-1.54	6.35e-50	1.139e-48	EPN2
ENSG00000072135	-1.425	1.207e-10	4.237e-10	PTPN18
ENSG00000072163	1.849	0.0006892	0.001391	LIMS2
ENSG00000072182	2.251	0.01179	0.02021	ASIC4
ENSG00000072195	-1.542	9.625e-25	6.89e-24	SPEG
ENSG00000072210	-1.504	6.902e-23	4.526e-22	ALDH3A2
ENSG00000072310	-1.281	2.251e-25	1.663e-24	SREBF1
ENSG00000072315	2.838	0.01491	0.02514	TRPC5
ENSG00000072401	1.687	3.946e-23	2.619e-22	UBE2D1
ENSG00000072415	-1.664	1.685e-48	2.91e-47	MPP5

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ENSG00000072422	-3.583	2.189e-43	3.258e-42	RHOBTB1
ENSG00000072571	-2.149	1.688e-50	3.076e-49	HMMR
ENSG00000072609	-1.049	1.041e-17	5.378e-17	CHFR
ENSG00000072682	1.261	2.948e-16	1.416e-15	P4HA2
ENSG00000072694	2.908	0.008971	0.01565	FCGR2B
ENSG00000072736	-1.4	1.672e-28	1.408e-27	NFATC3
ENSG00000072818	3.256	8.105e-17	4.004e-16	ACAP1
ENSG00000072832	-2.004	3.226e-05	7.457e-05	CRMP1
ENSG00000072840	-2.049	1.034e-14	4.592e-14	EVC
ENSG00000072858	-1.405	2.307e-05	5.402e-05	SIDT1
ENSG00000072864	-1.691	5.687e-42	8.069e-41	NDE1
ENSG00000072958	-2.281	4.022e-34	4.295e-33	AP1M1
ENSG00000073050	-1.632	1.578e-24	1.121e-23	XRCC1
ENSG00000073060	-1.038	3.227e-19	1.796e-18	SCARB1
ENSG00000073067	2.292	7.214e-05	0.0001615	CYP2W1
ENSG00000073111	-2.122	6.935e-74	2.466e-72	MCM2
ENSG00000073169	-1.011	1.094e-06	2.881e-06	SELO
ENSG00000073282	2.88	2.352e-37	2.844e-36	TP63
ENSG00000073464	-1.246	7.645e-15	3.424e-14	CLCN4
ENSG00000073536	-1.22	1.277e-10	4.472e-10	NLE1
ENSG00000073584	-1.104	1.253e-20	7.433e-20	SMARCE1
ENSG00000073605	-1.111	0.000178	0.0003829	GSDMB
ENSG00000073614	1.38	1.019e-54	2.084e-53	KDM5A
ENSG00000073711	-1.822	4.299e-37	5.147e-36	PPP2R3A
ENSG00000073712	1.481	1.257e-35	1.425e-34	FERMT2
ENSG00000073792	1.466	1.209e-16	5.91e-16	IGF2BP2
ENSG00000073849	-2.862	1.525e-79	6.139e-78	ST6GAL1
ENSG00000073910	-1.87	3.491e-16	1.672e-15	FRY
ENSG00000073921	1.586	3.347e-42	4.785e-41	PICALM
ENSG00000073969	-1.052	3.439e-25	2.512e-24	NSF
ENSG00000074071	-1.629	1.031e-33	1.078e-32	MRPS34
ENSG00000074181	-1.195	9.065e-50	1.621e-48	NOTCH3
ENSG00000074219	-1.191	2.623e-20	1.534e-19	TEAD2
ENSG00000074266	-1.453	3.57e-22	2.276e-21	EED
ENSG00000074276	1.82	6.188e-06	1.524e-05	CDHR2
ENSG00000074410	-1.831	0.002507	0.004739	CA12
ENSG00000074527	-1.087	2.98e-22	1.905e-21	NTN4
ENSG00000074582	-1.473	2.219e-18	1.187e-17	BCS1L
ENSG00000074590	-1.146	3.649e-16	1.746e-15	NUAK1
ENSG00000074603	-1.466	2.875e-35	3.222e-34	DPP8
ENSG00000074621	-2.084	1.583e-26	1.229e-25	SLC24A1
ENSG00000074855	-1.752	8.654e-20	4.943e-19	ANO8
ENSG00000074964	-1.611	1.347e-17	6.906e-17	ARHGEF10L
ENSG00000075043	1.622	0.007691	0.01356	KCNQ2

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ENSG00000075073	1.21	0.001248	0.002451	TACR2
ENSG00000075131	-1.608	6.063e-28	4.989e-27	TIPIN
ENSG00000075188	-1.37	7.108e-22	4.47e-21	NUP37
ENSG00000075213	-2.6	2.095e-07	5.843e-07	SEMA3A
ENSG00000075218	-3.739	8.915e-86	4.263e-84	GTSE1
ENSG00000075234	-1.02	4.468e-09	1.408e-08	TTC38
ENSG00000075240	-1.908	8.299e-29	7.096e-28	GRAMD4
ENSG00000075303	-1.555	9.677e-31	8.925e-30	SLC25A40
ENSG00000075336	-1.088	3.832e-10	1.299e-09	TIMM21
ENSG00000075413	1.222	1.397e-51	2.619e-50	MARK3
ENSG00000075461	-3.078	1.71e-90	9.11e-89	CACNG4
ENSG00000075618	-1.319	6.641e-35	7.32e-34	FSCN1
ENSG00000075651	-1.748	1.777e-18	9.553e-18	PLD1
ENSG00000075702	-1.327	6.831e-17	3.386e-16	WDR62
ENSG00000075785	2.08	7.414e-17	3.668e-16	RAB7A
ENSG00000075826	-1.612	0.0001118	0.000246	SEC31B
ENSG00000075856	1.175	1.629e-30	1.485e-29	SART3
ENSG00000076003	-2.328	8.93e-101	5.925e-99	MCM6
ENSG00000076053	1.099	3.035e-17	1.531e-16	RBM7
ENSG00000076248	-2.413	1.301e-30	1.191e-29	UNG
ENSG00000076351	-1.884	5.397e-11	1.938e-10	SLC46A1
ENSG00000076382	-1.498	4.237e-45	6.61e-44	SPAG5
ENSG00000076555	-2.629	3.356e-40	4.471e-39	ACACB
ENSG00000076604	-1.773	8.074e-39	1.032e-37	TRAF4
ENSG00000076650	-2.417	2.714e-26	2.089e-25	GPATCH1
ENSG00000076706	-1.011	1.431e-23	9.703e-23	MCAM
ENSG00000076716	-1.076	0.002838	0.005317	GPC4
ENSG00000076770	-1.877	0.02384	0.03874	MBNL3
ENSG00000076826	-1.436	5.527e-14	2.365e-13	CAMSAP3
ENSG00000077009	4.218	0.0002045	0.0004374	NMRK2
ENSG00000077152	-2.266	2.029e-87	1.011e-85	UBE2T
ENSG00000077420	3.541	0.007854	0.01384	APBB1IP
ENSG00000077454	-2.58	9.894e-84	4.525e-82	LRCH4
ENSG00000077463	1.13	1.145e-15	5.336e-15	SIRT6
ENSG00000077514	-2.416	6.283e-93	3.612e-91	POLD3
ENSG00000077616	3.393	6.264e-51	1.156e-49	NAALAD2
ENSG00000077684	-2.349	3.857e-47	6.449e-46	PHF17
ENSG00000077809	-1.875	8.273e-118	7.715e-116	GTF2I
ENSG00000078142	1.041	6.897e-28	5.664e-27	PIK3C3
ENSG00000078177	-1.243	2.956e-18	1.572e-17	N4BP2
ENSG00000078269	1.017	1.899e-36	2.202e-35	SYNJ2
ENSG00000078399	-3.07	5.004e-19	2.755e-18	HOXA9
ENSG00000078401	1.175	5.674e-15	2.551e-14	EDN1
ENSG00000078795	2.026	0.0133	0.02261	PKD2L2

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ENSG00000078814	1.066	0.02462	0.03992	MYH7B
ENSG00000078900	-2.83	5.526e-15	2.487e-14	TP73
ENSG00000078967	-1.501	1.034e-13	4.368e-13	UBE2D4
ENSG00000079112	3.232	0.002556	0.004826	CDH17
ENSG00000079215	-1.534	1.196e-38	1.521e-37	SLC1A3
ENSG00000079263	2.691	4.411e-19	2.436e-18	SP140
ENSG00000079308	-1.15	6.33e-07	1.698e-06	TNS1
ENSG00000079435	1.317	2.67e-26	2.056e-25	LIPE
ENSG00000079616	-2.703	3.396e-56	7.244e-55	KIF22
ENSG00000079974	-1.291	2.656e-34	2.862e-33	RABL2B
ENSG00000080007	1.212	1.041e-13	4.399e-13	DDX43
ENSG00000080200	-2.345	7.149e-48	1.211e-46	CRYBG3
ENSG00000080298	-1.038	2.696e-06	6.834e-06	RFX3
ENSG00000080371	1.051	8.005e-27	6.288e-26	RAB21
ENSG00000080493	2.919	0.003336	0.006185	SLC4A4
ENSG00000080503	-1.687	1.657e-28	1.396e-27	SMARCA2
ENSG00000080546	-2.007	5.085e-13	2.062e-12	SESN1
ENSG00000080802	1.777	4.54e-13	1.847e-12	CNOT4
ENSG00000080819	-2.217	2.353e-59	5.626e-58	CPOX
ENSG00000080824	2.411	5.279e-218	2.332e-215	HSP90AA1
ENSG00000080839	-2.561	3.919e-60	9.647e-59	RBL1
ENSG00000080845	1.144	1.209e-12	4.793e-12	DLGAP4
ENSG00000080986	-2.713	2.54e-90	1.345e-88	NDC80
ENSG00000081041	2.003	2.289e-12	8.926e-12	CXCL2
ENSG00000081052	-1.439	0.0004489	0.000925	COL4A4
ENSG00000081138	-2.551	0.002112	0.004034	CDH7
ENSG00000081177	-1.101	3.072e-13	1.262e-12	EXD2
ENSG00000081181	1.989	4.979e-13	2.021e-12	ARG2
ENSG00000081189	-1.943	0.0004754	0.0009773	MEF2C
ENSG00000081248	4.357	3.939e-07	1.076e-06	CACNA1S
ENSG00000081692	-2.249	7.344e-30	6.537e-29	JMJD4
ENSG00000081721	-1.216	7.442e-12	2.811e-11	DUSP12
ENSG00000081803	-1.708	0.003361	0.006229	CADPS2
ENSG00000081923	-1.796	6.917e-72	2.327e-70	ATP8B1
ENSG00000081985	3.641	3.186e-10	1.088e-09	IL12RB2
ENSG00000082068	-1.534	3.754e-34	4.018e-33	WDR70
ENSG00000082146	-2.637	9.522e-56	2e-54	STRADB
ENSG00000082153	1.077	1.442e-16	7.026e-16	BZW1
ENSG00000082175	4.074	9.03e-10	2.993e-09	PGR
ENSG00000082196	-3.436	2.561e-23	1.717e-22	C1QTNF3
ENSG00000082438	-1.544	2.479e-07	6.885e-07	COBLL1
ENSG00000082458	-2.774	2.378e-144	3.299e-142	DLG3
ENSG00000082482	-1.953	7.97e-05	0.0001777	KCNK2
ENSG00000082497	-1.205	3.891e-23	2.583e-22	SERTAD4

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ENSG00000082512	-1.445	1.945e-06	4.996e-06	TRAF5
ENSG00000082516	-3.554	1.785e-132	2.171e-130	GEMIN5
ENSG00000082701	1.088	7.672e-29	6.567e-28	GSK3B
ENSG00000082781	-1.088	1.67e-16	8.101e-16	ITGB5
ENSG00000082898	-1.001	3.673e-24	2.562e-23	XPO1
ENSG00000082996	-1.163	4.429e-26	3.381e-25	RNF13
ENSG00000083093	-1.651	4.098e-33	4.19e-32	PALB2
ENSG00000083223	2.111	3.503e-58	7.968e-57	ZCCHC6
ENSG00000083290	-1.431	1.323e-17	6.789e-17	ULK2
ENSG00000083307	-2.035	2.889e-78	1.144e-76	GRHL2
ENSG00000083312	1.484	1.647e-76	6.255e-75	TNPO1
ENSG00000083454	-2.463	7.279e-21	4.37e-20	P2RX5
ENSG00000083799	1.205	4.928e-37	5.888e-36	CYLD
ENSG00000083896	1.778	6.933e-35	7.631e-34	YTHDC1
ENSG00000083937	1.287	4.831e-27	3.823e-26	CHMP2B
ENSG00000084093	-1.14	2.898e-24	2.033e-23	REST
ENSG00000084444	-1.224	1.663e-09	5.408e-09	KIAA1467
ENSG00000084652	-1.08	1.231e-33	1.28e-32	TXLNA
ENSG00000084710	-1.625	2.274e-11	8.369e-11	EFR3B
ENSG00000084734	4.033	4.26e-06	1.065e-05	GCKR
ENSG00000084764	1.071	1.019e-12	4.067e-12	MAPRE3
ENSG00000084774	-2.544	4.502e-45	7.003e-44	CAD
ENSG00000085185	-1.553	1.428e-09	4.671e-09	BCORL1
ENSG00000085276	-2.224	3.008e-42	4.309e-41	MECOM
ENSG00000085511	-1.8	2.128e-43	3.172e-42	MAP3K4
ENSG00000085514	1.239	0.02019	0.03328	PILRA
ENSG00000085552	-3.677	6.28e-57	1.367e-55	IGSF9
ENSG00000085563	4.174	0.001652	0.003199	ABCB1
ENSG00000085741	-1.736	0.02384	0.03874	WNT11
ENSG00000085760	-1.345	6.271e-30	5.588e-29	MTIF2
ENSG00000085788	-1.399	6.602e-27	5.193e-26	DDHD2
ENSG00000085840	-2.083	7.426e-91	3.983e-89	ORC1
ENSG00000085982	-1.045	1.63e-39	2.129e-38	USP40
ENSG00000085999	-1.099	3.515e-27	2.799e-26	RAD54L
ENSG00000086015	-1.613	4.981e-61	1.255e-59	MAST2
ENSG00000086061	2.389	2.917e-156	5.266e-154	DNAJA1
ENSG00000086189	-1.317	2.923e-44	4.452e-43	DIMT1
ENSG00000086289	-2.494	1.932e-09	6.25e-09	EPDR1
ENSG00000086475	-1.249	5.162e-40	6.845e-39	SEPHS1
ENSG00000086544	1.454	1.104e-16	5.404e-16	ITPKC
ENSG00000086570	1.86	3.222e-10	1.1e-09	FAT2
ENSG00000086619	2.375	6.349e-58	1.427e-56	ERO1LB
ENSG00000087074	5.104	0	0	PPP1R15A
ENSG00000087085	1.32	0.02612	0.04219	ACHE

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ENSG00000087111	-1.282	8.074e-25	5.795e-24	PIGS
ENSG00000087237	3.387	0.004289	0.007838	CETP
ENSG00000087258	-2.156	5.632e-15	2.533e-14	GNAO1
ENSG00000087299	-1.466	1.389e-17	7.117e-17	L2HGDH
ENSG00000087303	1.409	0.001674	0.003237	NID2
ENSG00000087448	-2.703	7.042e-102	4.805e-100	KLHL42
ENSG00000087495	1.559	0.002303	0.004373	PHACTR3
ENSG00000087510	-2.702	9.826e-124	1.051e-121	TFAP2C
ENSG00000087586	-3.302	3.864e-242	1.966e-239	AURKA
ENSG00000087903	-1.468	4.102e-11	1.483e-10	RFX2
ENSG00000088002	-1.074	3.558e-07	9.763e-07	SULT2B1
ENSG00000088035	-1.416	1.873e-18	1.005e-17	ALG6
ENSG00000088038	1.21	1.231e-09	4.049e-09	CNOT3
ENSG00000088053	3.076	1.461e-16	7.115e-16	GP6
ENSG00000088280	-1.396	2.654e-07	7.35e-07	ASAP3
ENSG00000088305	-1.678	9.17e-17	4.509e-16	DNMT3B
ENSG00000088325	-1.993	1.946e-40	2.611e-39	TPX2
ENSG00000088367	-1.386	4.499e-26	3.433e-25	EPB41L1
ENSG00000088386	-2.278	0.0003189	0.0006688	SLC15A1
ENSG00000088543	-1.989	1.456e-05	3.468e-05	C3orf18
ENSG00000088682	-2.152	2.043e-63	5.514e-62	COQ9
ENSG00000088726	1.02	7.34e-12	2.775e-11	TMEM40
ENSG00000088756	-4.501	3.578e-09	1.136e-08	ARHGAP28
ENSG00000088808	-1.408	1.917e-10	6.632e-10	PPP1R13B
ENSG00000088826	1.136	8.144e-13	3.266e-12	SMOX
ENSG00000088836	-1.861	1.321e-55	2.755e-54	SLC4A11
ENSG00000088888	-1.754	1.404e-56	3.026e-55	MAVS
ENSG00000088986	-1.648	2.13e-24	1.502e-23	DYNLL1
ENSG00000089050	-1.292	9.71e-31	8.95e-30	RBBP9
ENSG00000089053	-1.665	1.677e-30	1.527e-29	ANAPC5
ENSG00000089091	-1.254	3.442e-08	1.017e-07	DZANK1
ENSG00000089094	-1.825	1.428e-28	1.206e-27	KDM2B
ENSG00000089116	-1.264	0.009546	0.01659	LHX5
ENSG00000089127	-1.339	2.674e-06	6.781e-06	OAS1
ENSG00000089154	-1.428	4.017e-43	5.925e-42	GCN1L1
ENSG00000089335	-2.35	2.356e-52	4.52e-51	ZNF302
ENSG00000089505	-1.707	7.332e-05	0.0001641	CMTM1
ENSG00000089685	-1.48	2.242e-15	1.029e-14	BIRC5
ENSG00000089723	-1.576	7.133e-06	1.748e-05	OTUB2
ENSG00000089775	-2.529	3.243e-39	4.19e-38	ZBTB25
ENSG00000089820	2.125	1.452e-09	4.742e-09	ARHGAP4
ENSG00000089876	-1.957	1.752e-40	2.362e-39	DHX32
ENSG00000089916	1.525	1.002e-68	3.115e-67	GPATCH2L
ENSG00000090060	1.315	1.074e-17	5.542e-17	PAPOLA

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ENSG00000090061	1.578	2.86e-13	1.178e-12	CCNK
ENSG00000090097	-1.372	1.139e-14	5.041e-14	PCBP4
ENSG00000090376	3.837	1.724e-07	4.842e-07	IRAK3
ENSG00000090470	-1.883	4.804e-43	7.036e-42	PDCD7
ENSG00000090520	2.227	5.99e-170	1.289e-167	DNAJB11
ENSG00000090554	-1.074	0.001492	0.002904	FLT3LG
ENSG00000090565	-1.515	3.493e-26	2.678e-25	RAB11FIP3
ENSG00000090661	-1.887	1.972e-20	1.161e-19	CERS4
ENSG00000090776	-1.218	5.403e-09	1.694e-08	EFNB1
ENSG00000090857	-1.148	1.296e-43	1.942e-42	PDPR
ENSG00000090889	-2.768	2.019e-117	1.852e-115	KIF4A
ENSG00000090924	1.877	5.358e-15	2.412e-14	PLEKHG2
ENSG00000090971	-1.15	1.388e-16	6.769e-16	NAT14
ENSG00000091039	1.158	2.143e-26	1.653e-25	OSBPL8
ENSG00000091106	2.047	7.88e-09	2.444e-08	NLRC4
ENSG00000091127	-2.399	6.397e-66	1.858e-64	PUS7
ENSG00000091128	2.755	0.001367	0.002673	LAMB4
ENSG00000091136	-1.485	9.529e-82	4.07e-80	LAMB1
ENSG00000091138	4.672	4.18e-06	1.045e-05	SLC26A3
ENSG00000091157	-1.385	7.127e-22	4.481e-21	WDR7
ENSG00000091164	1.54	1.137e-47	1.916e-46	TXNL1
ENSG00000091542	-1.393	2.132e-19	1.193e-18	ALKBH5
ENSG00000091592	2.127	3.415e-44	5.192e-43	NLRP1
ENSG00000091879	2.355	0.0003012	0.0006334	ANGPT2
ENSG00000091947	-1.292	1.64e-09	5.339e-09	TMEM101
ENSG00000091972	-2.124	6.214e-26	4.718e-25	CD200
ENSG00000091986	-1.723	9.86e-40	1.296e-38	CCDC80
ENSG00000092094	-1.352	1.725e-16	8.357e-16	OSGEP
ENSG00000092098	-1.822	5.75e-57	1.257e-55	RNF31
ENSG00000092200	-1.194	0.000448	0.0008155	RPGRIP1
ENSG00000092203	1.167	1.475e-36	1.719e-35	TOX4
ENSG00000092208	-2.073	2.35e-20	1.378e-19	GEMIN2
ENSG00000092345	5.052	1.027e-10	3.617e-10	DAZL
ENSG00000092470	-2.041	4.554e-56	9.64e-55	WDR76
ENSG00000092531	1.686	2.494e-70	8.05e-69	SNAP23
ENSG00000092758	-2.238	1.675e-10	5.817e-10	COL9A3
ENSG00000092847	-1.938	9.795e-74	3.461e-72	AGO1
ENSG00000092853	-3.735	1.169e-99	7.461e-98	CLSPN
ENSG00000092929	-1.334	2.989e-36	3.458e-35	UNC13D
ENSG00000092964	-1.237	8.855e-27	6.936e-26	DPYSL2
ENSG00000093183	-2.123	3.317e-57	7.298e-56	SEC22C
ENSG00000093217	-2.251	5.997e-09	1.875e-08	XYLB
ENSG00000094804	-1.321	3.565e-36	4.116e-35	CDC6
ENSG00000094880	-2.128	1.218e-65	3.52e-64	CDC23

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ENSG00000094914	-1.273	2.142e-28	1.792e-27	AAAS
ENSG00000094916	-1.575	1.811e-89	9.352e-88	CBX5
ENSG00000095002	-2.119	1.63e-58	3.743e-57	MSH2
ENSG00000095015	-1.814	9.786e-55	2.003e-53	MAP3K1
ENSG00000095203	-1.616	2.004e-29	1.759e-28	EPB41L4B
ENSG00000095261	-1.498	2.211e-38	2.776e-37	PSMD5
ENSG00000095397	1.024	1.928e-14	8.426e-14	DFNB31
ENSG00000095585	1.247	0.008023	0.01412	BLNK
ENSG00000095596	-3.924	2.207e-14	9.635e-14	CYP26A1
ENSG00000095637	1.35	2.714e-14	1.18e-13	SORBS1
ENSG00000095713	3.35	0.0007541	0.001515	CRTAC1
ENSG00000095752	5.389	2.066e-148	3.212e-146	IL11
ENSG00000095906	-1.364	2.067e-06	5.294e-06	NUBP2
ENSG00000095932	3.251	0.02029	0.03342	C19orf77
ENSG00000095951	1.464	1.4e-15	6.485e-15	HIVEP1
ENSG00000096060	-2.221	2.043e-69	6.433e-68	FKBP5
ENSG00000096070	-1.382	9.572e-17	4.702e-16	BRPF3
ENSG00000096092	-1.237	1.066e-06	2.81e-06	TMEM14A
ENSG00000096093	-1.165	4.238e-07	1.154e-06	EFHC1
ENSG00000096654	-2.513	5.349e-24	3.713e-23	ZNF184
ENSG00000096968	-1.181	0.0003812	0.0007924	JAK2
ENSG00000097033	-1.241	3.548e-37	4.267e-36	SH3GLB1
ENSG00000097046	-3.327	1.072e-111	8.649e-110	CDC7
ENSG00000097096	-1.444	9.3e-23	6.07e-22	SYDE2
ENSG00000099203	-2.048	2.116e-13	8.79e-13	TMED1
ENSG00000099250	-3.391	1.459e-156	2.662e-154	NRP1
ENSG00000099260	-2.283	0.005729	0.01029	PALMD
ENSG00000099282	-1.765	2.907e-33	2.986e-32	TSPAN15
ENSG00000099284	-1.886	0.0001097	0.0002418	H2AFY2
ENSG00000099330	-1.101	1.08e-05	2.604e-05	OCEL1
ENSG00000099337	3.045	1.018e-17	5.264e-17	KCNK6
ENSG00000099338	2.125	2.219e-12	8.659e-12	CATSPERG
ENSG00000099377	-1.544	2.709e-12	1.051e-11	HSD3B7
ENSG00000099381	-1.056	1.319e-10	4.618e-10	SETD1A
ENSG00000099797	1.396	1.412e-38	1.786e-37	TECR
ENSG00000099812	-1.204	1.377e-17	7.06e-17	MISP
ENSG00000099821	-1.756	1.233e-27	1.001e-26	POLRMT
ENSG00000099822	1.391	0.0005024	0.001031	HCN2
ENSG00000099834	2.368	7.484e-07	1.998e-06	CDHR5
ENSG00000099849	-1.807	1.998e-17	1.016e-16	RASSF7
ENSG00000099860	4.11	3.136e-198	1.032e-195	GADD45B
ENSG00000099864	4.361	3.28e-05	7.576e-05	PALM
ENSG00000099889	-1.668	7.504e-06	1.835e-05	ARVCF
ENSG00000099904	-2.607	1.554e-37	1.897e-36	ZDHHC8

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ENSG0000099910	-2.486	4.022e-35	4.465e-34	KLHL22
ENSG0000099949	-1.145	4.124e-07	1.124e-06	LZTR1
ENSG0000099954	3.029	0.02799	0.04494	CECR2
ENSG0000099985	4.601	2.164e-08	6.487e-08	OSM
ENSG0000099991	-1.972	2.583e-61	6.579e-60	CABIN1
ENSG0000010003	-1.154	9.435e-11	3.329e-10	SEC14L2
ENSG00000100014	-1.569	9.42e-61	2.356e-59	SPECC1L
ENSG00000100023	-1.501	1.082e-54	2.207e-53	PPIL2
ENSG00000100027	2.603	4.331e-06	1.081e-05	YPEL1
ENSG00000100034	-2.654	3.538e-107	2.627e-105	PPM1F
ENSG00000100036	-2.867	3.802e-14	1.64e-13	SLC35E4
ENSG00000100065	-1.65	1.659e-18	8.935e-18	CARD10
ENSG00000100068	-1.296	6.36e-06	1.565e-05	LRP5L
ENSG00000100075	-1.224	5.436e-09	1.703e-08	SLC25A1
ENSG00000100079	3.049	8.269e-11	2.929e-10	LGALS2
ENSG00000100083	-1.111	4.834e-25	3.51e-24	GGA1
ENSG00000100092	-1.988	5.995e-38	7.443e-37	SH3BP1
ENSG00000100099	-1.281	3.794e-26	2.907e-25	HPS4
ENSG00000100105	-4.273	6.741e-115	5.803e-113	PATZ1
ENSG00000100106	-1.114	2.245e-25	1.66e-24	TRIOBP
ENSG00000100109	1.661	3.116e-64	8.63e-63	TFIP11
ENSG00000100124	-2.407	4.407e-47	7.345e-46	ANKRD54
ENSG00000100147	-2.017	6.731e-13	2.71e-12	CCDC134
ENSG00000100162	-1.367	2.639e-06	6.697e-06	CENPM
ENSG00000100191	3.366	0.006472	0.01154	SLC5A4
ENSG00000100196	-1.294	3.596e-23	2.393e-22	KDEL3
ENSG00000100211	-2.085	9.52e-74	3.371e-72	CBY1
ENSG00000100219	1.684	1.088e-67	3.327e-66	XBP1
ENSG00000100226	1.064	1.748e-24	1.24e-23	GTPBP1
ENSG00000100228	-1.298	7.881e-11	2.795e-10	RAB36
ENSG00000100253	4.048	0.0002087	0.000446	MIOX
ENSG00000100271	-1.627	0.001295	0.002537	TTLL1
ENSG00000100285	-1.066	2.403e-06	6.12e-06	NEFH
ENSG00000100288	-1.27	1.672e-09	5.436e-09	CHKB
ENSG00000100292	8.788	0	0	HMOX1
ENSG00000100294	-2.294	5.799e-24	4.014e-23	MCAT
ENSG00000100297	-2.261	6.128e-130	7.193e-128	MCM5
ENSG00000100299	-1.135	4.652e-06	1.157e-05	ARSA
ENSG00000100302	-1.714	9.825e-09	3.018e-08	RASD2
ENSG00000100304	-1.408	1.274e-66	3.773e-65	TTLL12
ENSG00000100307	-1.953	5.151e-14	2.207e-13	CBX7
ENSG00000100311	-2.603	6.292e-77	2.406e-75	PDGFB
ENSG00000100314	3.442	2.53e-13	1.046e-12	CABP7
ENSG00000100324	-3.11	1.578e-51	2.949e-50	TAB1

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ENSG00000100330	1.159	2.67e-20	1.56e-19	MTMR3
ENSG00000100336	2.98	9.906e-05	0.0002192	APOL4
ENSG00000100344	-2.553	3.174e-30	2.857e-29	PNPLA3
ENSG00000100346	-2.5	1.158e-09	3.813e-09	CACNA1I
ENSG00000100350	-3.241	9.99e-110	7.799e-108	FOXRED2
ENSG00000100364	-1.003	2.481e-20	1.454e-19	KIAA0930
ENSG00000100368	1.307	0.02862	0.04588	CSF2RB
ENSG00000100376	-1.678	1.837e-16	8.896e-16	FAM118A
ENSG00000100379	-1.355	2.16e-15	9.916e-15	KCTD17
ENSG00000100380	1.449	3.847e-50	6.951e-49	ST13
ENSG00000100416	-1.428	3.181e-14	1.377e-13	TRMU
ENSG00000100422	-1.042	1.168e-14	5.166e-14	CERK
ENSG00000100426	-1.134	1.403e-24	9.987e-24	ZBED4
ENSG00000100427	6.454	8.22e-13	3.294e-12	MLC1
ENSG00000100429	-1.279	1.047e-13	4.423e-13	HDAC10
ENSG00000100479	-2.695	1.737e-20	1.025e-19	POLE2
ENSG00000100503	-1.674	1.97e-33	2.03e-32	NIN
ENSG00000100505	-2.312	1.632e-18	8.792e-18	TRIM9
ENSG00000100575	-1.463	2.221e-25	1.644e-24	TIMM9
ENSG00000100578	-1.935	3.174e-23	2.117e-22	KIAA0586
ENSG00000100583	-2.231	5.03e-17	2.513e-16	SAMD15
ENSG00000100591	1.859	2.111e-92	1.185e-90	AHSA1
ENSG00000100599	-1.921	1.63e-43	2.437e-42	RIN3
ENSG00000100604	4.015	1.707e-10	5.926e-10	CHGA
ENSG00000100626	-2.008	4.717e-11	1.699e-10	GALNT16
ENSG00000100628	3.174	0.009059	0.0158	ASB2
ENSG00000100664	1.352	2.54e-46	4.112e-45	EIF5
ENSG00000100697	-1.564	4.688e-31	4.369e-30	DICER1
ENSG00000100711	-1.104	7.774e-13	3.12e-12	ZFYVE21
ENSG00000100722	-1.144	3.866e-11	1.402e-10	ZC3H14
ENSG00000100726	-2.002	5.798e-21	3.505e-20	TELO2
ENSG00000100802	-1.167	1.469e-06	3.821e-06	C14orf93
ENSG00000100842	-2.608	2.009e-05	4.728e-05	EFS
ENSG00000100884	3.492	0.0007399	0.001488	CPNE6
ENSG00000100890	-1.109	0.0002014	0.0004311	KIAA0391
ENSG00000100902	1.194	4.992e-12	1.909e-11	PSMA6
ENSG00000100916	-1.152	1.45e-20	8.574e-20	BRMS1L
ENSG00000100918	-1.002	0.009661	0.01678	REC8
ENSG00000100968	-1.774	0.0001327	0.0002892	NFATC4
ENSG00000100982	-1.147	1.725e-17	8.808e-17	PCIF1
ENSG00000100987	-4.445	8.767e-09	2.704e-08	VSX1
ENSG00000101003	-4.065	7.107e-159	1.326e-156	GINS1
ENSG00000101004	-2.043	3.364e-27	2.681e-26	NINL
ENSG00000101098	-2.671	0.02469	0.04003	RIMS4

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ENSG00000101109	1.778	2.405e-72	8.171e-71	STK4
ENSG00000101138	-1.265	1.588e-15	7.327e-15	CSTF1
ENSG00000101166	1.144	7.604e-33	7.684e-32	SLMO2
ENSG00000101187	-1.219	3.167e-14	1.372e-13	SLCO4A1
ENSG00000101188	-3.522	2.384e-11	8.765e-11	NTSR1
ENSG00000101189	-1.033	4.858e-10	1.636e-09	MRGBP
ENSG00000101190	-1.964	2.724e-31	2.576e-30	TCFL5
ENSG00000101197	-2.926	0.01307	0.02224	BIRC7
ENSG00000101203	6.732	6.842e-18	3.569e-17	COL20A1
ENSG00000101213	-1.794	8.85e-12	3.328e-11	PTK6
ENSG00000101220	-1.159	2.076e-07	5.794e-07	C20orf27
ENSG00000101222	-2.974	4.819e-06	1.196e-05	SPEF1
ENSG00000101224	-3.53	1.071e-111	8.649e-110	CDC25B
ENSG00000101246	-2.242	8.586e-28	7.017e-27	ARFRP1
ENSG00000101255	2.025	5.489e-50	9.866e-49	TRIB3
ENSG00000101276	-2.997	1.282e-37	1.57e-36	SLC52A3
ENSG00000101280	2.044	0.03122	0.04973	ANGPT4
ENSG00000101290	-1.661	9.719e-67	2.893e-65	CDS2
ENSG00000101298	-2.338	1.775e-09	5.756e-09	SNPH
ENSG00000101346	-2.447	3.241e-66	9.494e-65	POFUT1
ENSG00000101347	3.024	9.712e-164	1.964e-161	SAMHD1
ENSG00000101361	-1.558	1.686e-36	1.958e-35	NOP56
ENSG00000101407	-1.748	3.019e-61	7.667e-60	TTI1
ENSG00000101412	-1.923	1.684e-25	1.256e-24	E2F1
ENSG00000101417	-3.182	7.758e-29	6.638e-28	PXMP4
ENSG00000101442	-1.531	5.384e-11	1.934e-10	ACTR5
ENSG00000101447	-3.319	4.573e-153	7.914e-151	FAM83D
ENSG00000101448	2.376	0.02855	0.04579	EPPIN
ENSG00000101470	1.845	0.02766	0.04444	TNNC2
ENSG00000101544	1.868	2.314e-126	2.572e-124	ADNP2
ENSG00000101546	-1.113	6.264e-15	2.813e-14	RBFA
ENSG00000101577	-1.253	3.189e-14	1.38e-13	LPIN2
ENSG00000101639	-1.418	1.115e-36	1.306e-35	CEP192
ENSG00000101654	1.525	1.092e-67	3.334e-66	RNMT
ENSG00000101665	1.169	1.112e-12	4.422e-12	SMAD7
ENSG00000101670	1.571	2.195e-48	3.756e-47	LIPG
ENSG00000101680	4.994	4.347e-15	1.969e-14	LAMA1
ENSG00000101745	1.865	4.924e-18	2.59e-17	ANKRD12
ENSG00000101751	-1.992	1.936e-23	1.306e-22	POLI
ENSG00000101773	-1.204	5.639e-26	4.293e-25	RBBP8
ENSG00000101782	2.029	1.463e-151	2.431e-149	RIOK3
ENSG00000101842	3.234	0.001857	0.003576	VSIG1
ENSG00000101846	-1.137	3.196e-12	1.235e-11	STS
ENSG00000101871	-1.963	1.967e-80	8.215e-79	MID1

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ENSG00000101882	-1.013	2.442e-21	1.502e-20	NKAP
ENSG00000101888	1.762	7.331e-102	4.982e-100	NXT2
ENSG00000101911	-1.155	1.577e-37	1.924e-36	PRPS2
ENSG00000101945	-2.766	2.008e-45	3.169e-44	SUV39H1
ENSG00000102043	-1.912	6.567e-05	0.0001477	MTMR8
ENSG00000102057	2.761	5.109e-09	1.605e-08	KCND1
ENSG00000102096	1.212	5.212e-09	1.637e-08	PIM2
ENSG00000102098	-1.477	1.106e-13	4.665e-13	SCML2
ENSG00000102125	-1.358	4.373e-22	2.774e-21	TAZ
ENSG00000102178	-3.055	4.655e-71	1.529e-69	UBL4A
ENSG00000102181	-1.755	8.116e-47	1.342e-45	CD99L2
ENSG00000102221	-1.771	2.241e-19	1.253e-18	PHF16
ENSG00000102239	3.029	0.0276	0.04436	BRS3
ENSG00000102302	-2.164	3.073e-13	1.262e-12	FGD1
ENSG00000102349	-2.85	2.043e-31	1.947e-30	KLF8
ENSG00000102384	-2.108	2.045e-34	2.219e-33	CENPI
ENSG00000102385	1.421	1.995e-06	5.119e-06	DRP2
ENSG00000102393	1.75	5.047e-41	6.944e-40	GLA
ENSG00000102401	-1.067	4.277e-08	1.254e-07	ARMCX3
ENSG00000102409	3.879	3.961e-06	9.917e-06	BEX4
ENSG00000102445	2.404	0.02374	0.03859	KIAA0226L
ENSG00000102466	-1.292	2.109e-06	5.394e-06	FGF14
ENSG00000102543	-1.292	0.0001066	0.0002352	CDADC1
ENSG00000102580	2.253	9.354e-93	5.322e-91	DNAJC3
ENSG00000102699	-2.654	5.891e-128	6.727e-126	PARP4
ENSG00000102743	-2.859	8.808e-38	1.088e-36	SLC25A15
ENSG00000102786	1.196	2.419e-22	1.551e-21	INTS6
ENSG00000102804	-1.204	7.832e-33	7.901e-32	TSC22D1
ENSG00000102805	-1.623	7.341e-24	5.057e-23	CLN5
ENSG00000102870	-2.49	1.179e-48	2.049e-47	ZNF629
ENSG00000102871	-2.285	3.294e-24	2.305e-23	TRADD
ENSG00000102890	-1.061	4.189e-08	1.23e-07	ELMO3
ENSG00000102900	-1.481	7.343e-37	8.705e-36	NUP93
ENSG00000102908	1.398	1.306e-15	6.066e-15	NFAT5
ENSG00000102910	-1.367	4.47e-43	6.565e-42	LONP2
ENSG00000102921	-1.371	9.021e-26	6.802e-25	N4BP1
ENSG00000102934	-3.659	6.435e-36	7.338e-35	PLLP
ENSG00000102967	-2.149	3.852e-21	2.348e-20	DHODH
ENSG00000102981	-2.465	3.411e-09	1.085e-08	PARD6A
ENSG00000102996	-2.501	2.704e-82	1.182e-80	MMP15
ENSG00000103021	-1.777	3.694e-43	5.454e-42	CCDC113
ENSG00000103024	-1.959	2.072e-08	6.219e-08	NME3
ENSG00000103034	-1.318	2.359e-09	7.58e-09	NDRG4
ENSG00000103037	-2.305	5.715e-34	6.053e-33	SETD6

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ENSG00000103044	-3.741	1.164e-45	1.85e-44	HAS3
ENSG00000103047	-2.042	3.293e-21	2.012e-20	TANGO6
ENSG00000103051	-1.152	1.591e-09	5.185e-09	COG4
ENSG00000103067	-2.008	5.794e-92	3.21e-90	ESRP2
ENSG00000103145	1.443	1.544e-18	8.33e-18	HCFC1R1
ENSG00000103148	-1.041	2.302e-13	9.546e-13	NPRL3
ENSG00000103150	-1.607	4.507e-08	1.32e-07	MLYCD
ENSG00000103154	5.745	1.267e-27	1.027e-26	NECAB2
ENSG00000103160	-3.21	4.639e-62	1.209e-60	HSDL1
ENSG00000103199	-2.123	8.171e-26	6.172e-25	ZNF500
ENSG00000103245	-1.445	7.538e-20	4.318e-19	NARFL
ENSG00000103253	-1.354	9.229e-09	2.84e-08	HAGHL
ENSG00000103254	-1.616	4.796e-07	1.301e-06	FAM173A
ENSG00000103257	1.772	2.084e-62	5.508e-61	SLC7A5
ENSG00000103264	-1.186	3.909e-15	1.774e-14	FBXO31
ENSG00000103266	-1.189	4.213e-18	2.224e-17	STUB1
ENSG00000103313	3.161	0.000153	0.0003312	MEFV
ENSG00000103316	4.411	4.103e-08	1.205e-07	CRYM
ENSG00000103319	-3.108	1.079e-99	6.916e-98	EEF2K
ENSG00000103351	-1.331	1.473e-22	9.539e-22	CLUAP1
ENSG00000103365	-1.22	1.087e-15	5.073e-15	GGA2
ENSG00000103381	-1.282	4.259e-23	2.819e-22	CPPED1
ENSG00000103404	-1.756	8.797e-54	1.752e-52	USP31
ENSG00000103415	-1.781	2.946e-34	3.17e-33	HMOX2
ENSG00000103426	6.841	0.0002442	0.000518	CORO7-PAM16
ENSG00000103494	-1.672	1.165e-27	9.472e-27	RPGRIPL
ENSG00000103495	-1.853	9.919e-75	3.612e-73	MAZ
ENSG00000103502	-1.275	1.285e-11	4.791e-11	CDIPT
ENSG00000103507	-1.417	3.772e-27	2.998e-26	BCKDK
ENSG00000103528	-1.636	4.922e-15	2.22e-14	SYT17
ENSG00000103534	-3.027	4.002e-64	1.105e-62	TMC5
ENSG00000103540	-2.169	1.071e-94	6.31e-93	CCP110
ENSG00000103550	-1.647	5.69e-50	1.021e-48	KNOP1
ENSG00000103647	1.461	6.793e-06	1.667e-05	CORO2B
ENSG00000103653	-1.295	2.936e-14	1.273e-13	CSK
ENSG00000103657	-1.308	4.312e-34	4.589e-33	HERC1
ENSG00000103707	-2.103	9.426e-21	5.623e-20	MTFMT
ENSG00000103742	2.176	0.002631	0.00496	IGDCC4
ENSG00000103852	-1.778	6.468e-24	4.466e-23	TTC23
ENSG00000103995	-1.368	9.469e-20	5.399e-19	CEP152
ENSG00000104043	-2.417	0.001992	0.003821	ATP8B4
ENSG00000104047	-1.933	1.782e-18	9.576e-18	DTWD1
ENSG00000104055	-1.887	0.005988	0.01073	TGM5
ENSG00000104067	1.068	5.505e-09	1.724e-08	TJP1

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ENSG00000104081	-4.258	2.944e-30	2.653e-29	BMF
ENSG00000104093	-1.496	4.512e-22	2.86e-21	DMXL2
ENSG00000104140	-2.754	1.634e-12	6.427e-12	RHOV
ENSG00000104142	-1.495	1.146e-10	4.028e-10	VPS18
ENSG00000104147	-2.411	2.327e-16	1.124e-15	OIP5
ENSG00000104154	-1.722	1.318e-06	3.442e-06	SLC30A4
ENSG00000104164	1.109	6.371e-24	4.402e-23	BLOC1S6
ENSG00000104205	-1.587	1.586e-13	6.645e-13	SGK3
ENSG00000104213	-1.925	0.0007267	0.001462	PDGFRL
ENSG00000104218	-1.627	1.495e-16	7.272e-16	CSPP1
ENSG00000104221	1.207	1.445e-06	3.761e-06	BRF2
ENSG00000104228	-1.902	3.864e-14	1.665e-13	TRIM35
ENSG00000104267	1.035	2.608e-08	7.777e-08	CA2
ENSG00000104290	-2.313	2.668e-43	3.956e-42	FZD3
ENSG00000104313	-2.88	2.299e-10	7.926e-10	EYA1
ENSG00000104320	-1.041	4.158e-20	2.411e-19	NBN
ENSG00000104332	-1.51	1.294e-34	1.413e-33	SFRP1
ENSG00000104365	-1.301	1.863e-28	1.564e-27	IKBKB
ENSG00000104368	-2.617	3.723e-59	8.753e-58	PLAT
ENSG00000104369	-3.619	4.221e-31	3.949e-30	JPH1
ENSG00000104371	3.447	0.003902	0.007169	DKK4
ENSG00000104413	-1.098	3.86e-26	2.956e-25	ESRP1
ENSG00000104415	3.524	0.008035	0.01414	WISP1
ENSG00000104419	2.093	6.8e-60	1.657e-58	NDRG1
ENSG00000104427	-1.522	2.333e-07	6.489e-07	ZC2HC1A
ENSG00000104442	-2.099	3.355e-50	6.081e-49	ARMC1
ENSG00000104447	-2.203	1.426e-15	6.597e-15	TRPS1
ENSG00000104518	-1.523	8.086e-10	2.688e-09	GSDMD
ENSG00000104524	-3.918	1.041e-63	2.818e-62	PYCR1
ENSG00000104549	-1.643	7.422e-82	3.186e-80	SQLE
ENSG00000104611	-2.163	2.61e-53	5.136e-52	SH2D4A
ENSG00000104613	-1.9	4.614e-32	4.524e-31	INTS10
ENSG00000104635	1.067	2.37e-09	7.613e-09	SLC39A14
ENSG00000104679	-1.853	5.712e-25	4.133e-24	R3HCC1
ENSG00000104687	1.212	1.945e-39	2.526e-38	GSR
ENSG00000104695	1.345	2.108e-39	2.73e-38	PPP2CB
ENSG00000104714	1.142	2.529e-21	1.553e-20	ERICH1
ENSG00000104738	-2.11	2.061e-127	2.322e-125	MCM4
ENSG00000104765	1.229	1.101e-33	1.15e-32	BNIP3L
ENSG00000104783	-2.426	1.333e-38	1.69e-37	KCNN4
ENSG00000104804	5.056	4.8e-07	1.302e-06	TULP2
ENSG00000104808	3.318	5.458e-10	1.832e-09	DHDH
ENSG00000104825	1.04	7.144e-17	3.538e-16	NFKBIB
ENSG00000104826	2.832	3.996e-05	9.171e-05	LHB

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ENSG00000104848	2.461	2.404e-06	6.121e-06	KCNA7
ENSG00000104856	1.774	4.845e-21	2.938e-20	RELB
ENSG00000104863	-2.601	1.648e-07	4.64e-07	LIN7B
ENSG00000104866	-1.74	2.36e-37	2.852e-36	PPP1R37
ENSG00000104879	4.264	5.155e-10	1.733e-09	CKM
ENSG00000104883	-1.164	0.007664	0.01352	PEX11G
ENSG00000104886	-1.762	1.134e-14	5.02e-14	PLEKHJ1
ENSG00000104967	-1.654	2.338e-05	5.472e-05	NOVA2
ENSG00000104976	-1.551	5.754e-13	2.325e-12	SNAPC2
ENSG00000104983	-1.585	4.976e-10	1.675e-09	CCDC61
ENSG00000104998	-1.543	5.428e-11	1.948e-10	IL27RA
ENSG00000105011	-2.916	5.687e-135	7.123e-133	ASF1B
ENSG00000105053	1.053	2.633e-32	2.607e-31	VRK3
ENSG00000105058	1.451	8.3e-42	1.175e-40	FAM32A
ENSG00000105137	-2.966	1.252e-22	8.13e-22	SYDE1
ENSG00000105143	-1.523	3.598e-08	1.062e-07	SLC1A6
ENSG00000105173	-1.271	4.31e-14	1.855e-13	CCNE1
ENSG00000105219	3.005	7.953e-09	2.464e-08	CNTD2
ENSG00000105245	1.517	4.746e-12	1.816e-11	NUMBL
ENSG00000105248	1.241	5.679e-18	2.978e-17	CCDC94
ENSG00000105251	4.51	1.204e-05	2.889e-05	SHD
ENSG00000105289	-1.474	7.944e-11	2.816e-10	TJP3
ENSG00000105327	1.397	3.386e-05	7.814e-05	BBC3
ENSG00000105376	-2.043	4.424e-18	2.333e-17	ICAM5
ENSG00000105397	-1.095	3.241e-11	1.18e-10	TYK2
ENSG00000105426	-1.887	1.579e-86	7.727e-85	PTPRS
ENSG00000105429	-1.536	9.341e-43	1.356e-41	MEGF8
ENSG00000105464	-1.905	8.306e-23	5.429e-22	GRIN2D
ENSG00000105483	-1.504	3.404e-18	1.805e-17	CARD8
ENSG00000105486	-1.275	3.564e-23	2.372e-22	LIG1
ENSG00000105497	2.427	1.204e-51	2.268e-50	ZNF175
ENSG00000105499	3.415	3.413e-10	1.162e-09	PLA2G4C
ENSG00000105514	-3.435	2.472e-47	4.141e-46	RAB3D
ENSG00000105523	-2.227	2.508e-05	5.851e-05	FAM83E
ENSG00000105538	2.184	0.0001228	0.0002684	RASIP1
ENSG00000105550	5.174	4.693e-07	1.274e-06	FGF21
ENSG00000105552	-1.448	4.656e-24	3.237e-23	BCAT2
ENSG00000105559	-1.457	2.788e-07	7.71e-07	PLEKHA4
ENSG00000105607	-1.143	2.37e-05	5.544e-05	GCDH
ENSG00000105619	1.249	3.642e-18	1.927e-17	TFPT
ENSG00000105639	-1.013	0.0117	0.02006	JAK3
ENSG00000105641	2.849	5.694e-05	0.0001289	SLC5A5
ENSG00000105642	4.911	4.263e-24	2.967e-23	KCNN1
ENSG00000105647	-1.398	2.353e-47	3.946e-46	PIK3R2

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ENSG00000105656	2.165	1.006e-94	5.947e-93	ELL
ENSG00000105662	-1.216	1.486e-15	6.862e-15	CRTC1
ENSG00000105676	-2.208	9.398e-54	1.867e-52	ARMC6
ENSG00000105717	2.033	3.874e-26	2.965e-25	PBX4
ENSG00000105722	-1.166	4.683e-24	3.255e-23	ERF
ENSG00000105737	1.486	0.0147	0.02481	GRIK5
ENSG00000105738	-1.483	2.112e-40	2.832e-39	SIPA1L3
ENSG00000105810	-1.531	4.192e-27	3.324e-26	CDK6
ENSG00000105821	1.682	1.187e-15	5.527e-15	DNAJC2
ENSG00000105825	1.939	3.331e-92	1.864e-90	TFPI2
ENSG00000105849	-1.187	8.41e-17	4.151e-16	TWISTNB
ENSG00000105856	2.624	2.77e-130	3.275e-128	HBP1
ENSG00000105879	1.629	4.928e-13	2.002e-12	CBLL1
ENSG00000105926	-1.277	8.762e-27	6.87e-26	MPP6
ENSG00000105948	-2.076	9.677e-27	7.563e-26	TTC26
ENSG00000105967	2.815	0.0005979	0.001217	TFEC
ENSG00000105971	-1.242	1.829e-40	2.462e-39	CAV2
ENSG00000105974	-1.195	1.67e-48	2.887e-47	CAV1
ENSG00000105991	-2.843	0.02042	0.03363	HOXA1
ENSG00000105993	2.806	3.914e-110	3.084e-108	DNAJB6
ENSG00000105996	-3.541	5.037e-07	1.363e-06	HOXA2
ENSG00000105997	-3.181	3.833e-25	2.792e-24	HOXA3
ENSG00000106003	-3.095	9.213e-23	6.015e-22	LFNG
ENSG00000106004	-3.143	1.497e-10	5.221e-10	HOXA5
ENSG00000106006	-2.617	2.343e-08	7.006e-08	HOXA6
ENSG00000106009	-1.729	4.357e-34	4.635e-33	BRAT1
ENSG00000106012	-1.793	8.945e-67	2.672e-65	IQCE
ENSG00000106025	-2.529	7.675e-17	3.795e-16	TSPAN12
ENSG00000106052	1.553	1.138e-20	6.766e-20	TAX1BP1
ENSG00000106069	-2.238	1.17e-32	1.172e-31	CHN2
ENSG00000106070	2.031	3.869e-68	1.194e-66	GRB10
ENSG00000106089	1.756	8.546e-33	8.605e-32	STX1A
ENSG00000106100	-3.519	5.07e-65	1.438e-63	NOD1
ENSG00000106105	2.235	6.088e-148	9.375e-146	GARS
ENSG00000106113	2.827	0.003904	0.007171	CRHR2
ENSG00000106123	-1.434	7.037e-24	4.851e-23	EPHB6
ENSG00000106125	-2.552	2.4e-55	4.98e-54	FAM188B
ENSG00000106144	-1.61	3.484e-57	7.656e-56	CASP2
ENSG00000106178	6.03	3.598e-17	1.81e-16	CCL24
ENSG00000106211	1.8	1.56e-55	3.248e-54	HSPB1
ENSG00000106245	1.287	1.351e-21	8.412e-21	BUD31
ENSG00000106246	-1.079	2.066e-06	5.291e-06	PTCD1
ENSG00000106258	1.442	0.003255	0.006047	CYP3A5
ENSG00000106290	-1.479	5.665e-19	3.115e-18	TAF6

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ENSG00000106305	-1.886	3.37e-39	4.352e-38	AIMP2
ENSG00000106327	-1.53	6.466e-06	1.589e-05	TFR2
ENSG00000106351	-3.707	4.348e-35	4.817e-34	AGFG2
ENSG00000106366	1.395	1.668e-54	3.377e-53	SERPINE1
ENSG00000106392	-1.315	1.094e-30	1.006e-29	C1GALT1
ENSG00000106404	1.667	1.042e-18	5.661e-18	CLDN15
ENSG00000106459	-1.123	8.378e-09	2.591e-08	NRF1
ENSG00000106460	-1.206	1.969e-35	2.217e-34	TMEM106B
ENSG00000106462	-1.131	3.545e-13	1.452e-12	EZH2
ENSG00000106477	-1.599	2.126e-38	2.671e-37	CEP41
ENSG00000106484	-1.512	1.245e-28	1.056e-27	MEST
ENSG00000106546	1.388	7.734e-28	6.336e-27	AHR
ENSG00000106603	-1.072	2.024e-21	1.252e-20	COA1
ENSG00000106624	3.079	0.0005311	0.001087	AEBP1
ENSG00000106683	-1.472	8.28e-31	7.658e-30	LIMK1
ENSG00000106688	-3.852	3.601e-39	4.646e-38	SLC1A1
ENSG00000106689	-3.468	6.84e-12	2.591e-11	LHX2
ENSG00000106701	-2.123	6.664e-14	2.839e-13	FSD1L
ENSG00000106714	-2.218	2.127e-11	7.851e-11	CNTNAP3
ENSG00000106771	-1.541	1.303e-55	2.72e-54	TMEM245
ENSG00000106780	-1.336	1.951e-41	2.724e-40	MEGF9
ENSG00000106785	-2.089	7.336e-55	1.505e-53	TRIM14
ENSG00000106803	1.005	1.014e-11	3.805e-11	SEC61B
ENSG00000106804	-1.003	4.722e-06	1.174e-05	C5
ENSG00000106852	-2.679	0.002422	0.004587	LHX6
ENSG00000106991	-2.549	7.054e-65	1.993e-63	ENG
ENSG00000107014	-1.694	0.01493	0.02518	RLN2
ENSG00000107021	-2.124	7.091e-38	8.765e-37	TBC1D13
ENSG00000107099	-1.382	1.368e-10	4.783e-10	DOCK8
ENSG00000107104	-2.34	4.127e-49	7.27e-48	KANK1
ENSG00000107165	4.397	2.53e-05	5.9e-05	TYRP1
ENSG00000107187	3.436	0.004445	0.008097	LHX3
ENSG00000107281	-1.397	1.6e-11	5.935e-11	NPDC1
ENSG00000107372	2.086	3.35e-131	3.988e-129	ZFAND5
ENSG00000107443	-1.462	2.979e-18	1.583e-17	CCNJ
ENSG00000107554	-1.676	4.108e-43	6.044e-42	DNMBP
ENSG00000107566	-1.71	1.022e-54	2.088e-53	ERLIN1
ENSG00000107593	3.438	0.004719	0.008568	PKD2L1
ENSG00000107618	-2.305	0.006062	0.01085	RBP3
ENSG00000107672	-2.624	3.149e-49	5.559e-48	NSMCE4A
ENSG00000107679	-1.177	1.69e-18	9.096e-18	PLEKHA1
ENSG00000107719	-2.362	2.45e-34	2.643e-33	PALD1
ENSG00000107738	-1.367	2.245e-12	8.758e-12	C10orf54
ENSG00000107779	-1.672	1.84e-30	1.673e-29	BMPR1A

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ENSG00000107789	-2.465	2.817e-25	2.07e-24	MINPP1
ENSG00000107816	-2.706	8.283e-68	2.537e-66	LZTS2
ENSG00000107819	-1.515	5.032e-34	5.333e-33	SFXN3
ENSG00000107821	-1.413	7.92e-08	2.281e-07	KAZALD1
ENSG00000107829	-1.136	9.217e-12	3.465e-11	FBXW4
ENSG00000107863	1.355	5.714e-15	2.568e-14	ARHGAP21
ENSG00000107864	2.712	1.501e-36	1.747e-35	CPEB3
ENSG00000107872	-3.085	5.534e-20	3.19e-19	FBXL15
ENSG00000107882	-1.724	7.005e-25	5.044e-24	SUFU
ENSG00000107890	-1.456	7.738e-14	3.287e-13	ANKRD26
ENSG00000107897	-1.258	4.071e-27	3.232e-26	ACBD5
ENSG00000107929	1.143	1.424e-30	1.302e-29	LARP4B
ENSG00000107951	-1.8	5.112e-37	6.103e-36	MTPAP
ENSG00000107968	-1.144	4.661e-05	0.0001064	MAP3K8
ENSG00000107984	-2.549	8.167e-160	1.54e-157	DKK1
ENSG00000108001	2.602	0.01961	0.0324	EBF3
ENSG00000108091	-1.146	2.855e-15	1.304e-14	CCDC6
ENSG00000108219	-1.356	3.688e-65	1.051e-63	TSPAN14
ENSG00000108239	-1.05	4.618e-14	1.986e-13	TBC1D12
ENSG00000108256	-1.084	4.809e-30	4.294e-29	NUFIP2
ENSG00000108264	-1.952	2.009e-21	1.244e-20	TADA2A
ENSG00000108272	-1.916	5.304e-16	2.512e-15	DHRS11
ENSG00000108292	-1.321	4.609e-59	1.076e-57	MLLT6
ENSG00000108296	2.281	4.901e-102	3.358e-100	CWC25
ENSG00000108312	-3.687	5.948e-209	2.496e-206	UBTF
ENSG00000108349	-1.168	2.465e-19	1.377e-18	CASC3
ENSG00000108352	-1.404	2.556e-10	8.776e-10	RAPGEFL1
ENSG00000108384	-1.043	2.453e-17	1.243e-16	RAD51C
ENSG00000108395	-1.398	2.097e-22	1.349e-21	TRIM37
ENSG00000108433	1.905	3.685e-95	2.193e-93	GOSR2
ENSG00000108439	-2.052	6.041e-23	3.971e-22	PNPO
ENSG00000108465	-1.104	1.269e-11	4.734e-11	CDK5RAP3
ENSG00000108468	-1.009	4.133e-27	3.28e-26	CBX1
ENSG00000108511	-3.678	6.838e-49	1.197e-47	HOXB6
ENSG00000108528	-1.466	2.842e-11	1.039e-10	SLC25A11
ENSG00000108551	4.154	1.255e-17	6.457e-17	RASD1
ENSG00000108556	2.453	0.009507	0.01653	CHRNE
ENSG00000108557	-1.103	1.324e-25	9.912e-25	RAI1
ENSG00000108578	-1.12	6.058e-11	2.168e-10	BLMH
ENSG00000108604	-2.204	9.631e-38	1.189e-36	SMARCD2
ENSG00000108641	-1.027	9.566e-09	2.943e-08	B9D1
ENSG00000108669	1.324	3.987e-35	4.43e-34	CYTH1
ENSG00000108771	-1.914	1.241e-08	3.781e-08	DHX58
ENSG00000108773	-1.371	1.281e-30	1.173e-29	KAT2A

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ENSG00000108784	-2.743	2.058e-31	1.959e-30	NAGLU
ENSG00000108797	-1.429	0.000492	0.00101	CNTNAP1
ENSG00000108813	-2.227	3.7e-06	9.281e-06	DLX4
ENSG00000108819	-2.395	1.002e-88	5.114e-87	PPP1R9B
ENSG00000108852	-2.902	5.146e-16	2.442e-15	MPP2
ENSG00000108861	-1.012	5.555e-24	3.848e-23	DUSP3
ENSG00000108932	-3.02	6.466e-21	3.896e-20	SLC16A6
ENSG00000108960	-1.715	2.219e-18	1.187e-17	MMD
ENSG00000108961	-1.727	2.225e-17	1.129e-16	RANGRF
ENSG00000108963	-2.008	8.334e-31	7.703e-30	DPH1
ENSG00000109062	-1.761	2.474e-24	1.74e-23	SLC9A3R1
ENSG00000109063	1.874	1.472e-08	4.457e-08	MYH3
ENSG00000109066	-1.983	1.26e-27	1.021e-26	TMEM104
ENSG00000109084	-1.04	3.091e-23	2.066e-22	TMEM97
ENSG00000109089	-2.48	2.277e-30	2.061e-29	CDR2L
ENSG00000109099	-1.218	8.326e-05	0.0001852	PMP22
ENSG00000109103	-2.06	3.218e-30	2.894e-29	UNC119
ENSG00000109111	1.294	2.373e-45	3.733e-44	SUPT6H
ENSG00000109113	-1.275	3.279e-14	1.418e-13	RAB34
ENSG00000109118	-1.101	3.847e-10	1.304e-09	PHF12
ENSG00000109184	-2.146	2.81e-37	3.391e-36	DCUN1D4
ENSG00000109189	-1.327	1.021e-20	6.084e-20	USP46
ENSG00000109220	2.723	1.3e-80	5.457e-79	CHIC2
ENSG00000109270	2.071	5.23e-39	6.733e-38	LAMTOR3
ENSG00000109321	3.948	1.953e-51	3.642e-50	AREG
ENSG00000109323	-1.133	1.385e-16	6.758e-16	MANBA
ENSG00000109332	1.998	2.422e-49	4.279e-48	UBE2D3
ENSG00000109381	-1.244	1.143e-13	4.82e-13	ELF2
ENSG00000109458	-2.131	1.127e-32	1.13e-31	GAB1
ENSG00000109466	-1.075	1.931e-12	7.565e-12	KLHL2
ENSG00000109501	-2.724	9.856e-104	6.951e-102	WFS1
ENSG00000109511	1.911	2.103e-16	1.017e-15	ANXA10
ENSG00000109572	-1.243	2.465e-43	3.661e-42	CLCN3
ENSG00000109576	-1.921	7.454e-15	3.34e-14	AADAT
ENSG00000109586	-1.519	7.021e-41	9.573e-40	GALNT7
ENSG00000109618	-2.17	1.256e-24	8.957e-24	SEPSECS
ENSG00000109654	-1.325	8.683e-45	1.342e-43	TRIM2
ENSG00000109667	1.261	0.02484	0.04026	SLC2A9
ENSG00000109670	1.728	1.48e-59	3.574e-58	FBXW7
ENSG00000109674	-3.582	1.678e-61	4.288e-60	NEIL3
ENSG00000109685	-1.304	4.388e-59	1.026e-57	WHSC1
ENSG00000109686	-1.212	7.587e-15	3.399e-14	SH3D19
ENSG00000109689	-1.013	6.931e-11	2.469e-10	STIM2
ENSG00000109738	-2.487	2.959e-11	1.079e-10	GLRB

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ENSG00000109756	2.231	1.324e-139	1.764e-137	RAPGEF2
ENSG00000109771	1.502	1.072e-12	4.271e-12	LRP2BP
ENSG00000109805	-2.277	3.281e-57	7.228e-56	NCAPG
ENSG00000109846	4.712	3.659e-35	4.084e-34	CRYAB
ENSG00000109943	4.921	7.363e-07	1.967e-06	CRTAM
ENSG00000109944	-1.035	0.0006787	0.001371	C11orf63
ENSG00000110042	-3.038	3.028e-122	3.157e-120	DTX4
ENSG00000110057	-1.139	1.546e-17	7.905e-17	UNC93B1
ENSG00000110074	-1.096	1.235e-09	4.06e-09	FOXRED1
ENSG00000110090	-1.545	1.722e-56	3.705e-55	CPT1A
ENSG00000110092	-2.677	2.018e-150	3.258e-148	CCND1
ENSG00000110108	-1.551	1.428e-54	2.899e-53	TMEM109
ENSG00000110169	3.285	1.45e-16	7.061e-16	HPX
ENSG00000110171	1.474	1.791e-23	1.209e-22	TRIM3
ENSG00000110172	3.97	0	0	CHORDC1
ENSG00000110237	-2.371	4.464e-101	2.974e-99	ARHGEF17
ENSG00000110274	-2.074	7.977e-32	7.731e-31	CEP164
ENSG00000110315	-1.248	1.365e-31	1.31e-30	RNF141
ENSG00000110318	-1.832	4.329e-12	1.66e-11	KIAA1377
ENSG00000110324	3.128	0.0002284	0.000486	IL10RA
ENSG00000110328	-1.872	0.004799	0.008705	GALNT18
ENSG00000110400	-3.466	1.311e-61	3.366e-60	PVRL1
ENSG00000110455	-2.93	8.766e-28	7.157e-27	ACCS
ENSG00000110497	-1.935	1.625e-29	1.429e-28	AMBRA1
ENSG00000110583	-2.29	2.467e-41	3.426e-40	NAA40
ENSG00000110619	2.176	1.507e-86	7.396e-85	CARS
ENSG00000110660	-1.182	2.602e-25	1.916e-24	SLC35F2
ENSG00000110786	3.303	0.01299	0.02211	PTPN5
ENSG00000110841	-1.102	1.033e-25	7.776e-25	PPFIBP1
ENSG00000110844	-1.14	1.45e-07	4.104e-07	PRPF40B
ENSG00000110852	2.007	0.02233	0.03648	CLEC2B
ENSG00000110871	-1.783	3.834e-28	3.17e-27	COQ5
ENSG00000110876	3.623	7.34e-20	4.209e-19	SELPLG
ENSG00000110880	1.225	1.034e-48	1.798e-47	CORO1C
ENSG00000110881	-1.395	1.71e-08	5.16e-08	ASIC1
ENSG00000110900	-1.62	7.315e-05	0.0001637	TSPAN11
ENSG00000110906	1.007	2.455e-28	2.049e-27	KCTD10
ENSG00000110911	-2.236	7.676e-74	2.724e-72	SLC11A2
ENSG00000110917	-1.382	3.689e-32	3.628e-31	MLEC
ENSG00000110921	-2.283	1.498e-35	1.695e-34	MVK
ENSG00000110931	-1.252	1.761e-33	1.818e-32	CAMKK2
ENSG00000110944	2.465	0.0003122	0.0006554	IL23A
ENSG00000110958	1.711	8.085e-76	3.023e-74	PTGES3
ENSG00000110987	-2.323	9.065e-39	1.156e-37	BCL7A

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ENSG00000111011	3.036	5.043e-146	7.362e-144	RSRC2
ENSG00000111012	2.518	1.093e-08	3.342e-08	CYP27B1
ENSG00000111052	2.12	0.03131	0.04985	LIN7A
ENSG00000111077	-1.378	2.35e-09	7.55e-09	TENC1
ENSG00000111110	-4.302	1.029e-124	1.122e-122	PPM1H
ENSG00000111181	5.268	8.155e-08	2.346e-07	SLC6A12
ENSG00000111186	-2.68	1.28e-17	6.578e-17	WNT5B
ENSG00000111206	-1.751	1.312e-66	3.87e-65	FOXMI
ENSG00000111247	-1.371	5.753e-27	4.538e-26	RAD51AP1
ENSG00000111261	-2.08	1.166e-15	5.43e-15	MANSC1
ENSG00000111266	1.381	4.247e-36	4.886e-35	DUSP16
ENSG00000111271	-1.72	7.106e-26	5.385e-25	ACAD10
ENSG00000111276	-3.332	4.466e-139	5.857e-137	CDKN1B
ENSG00000111291	1.415	1.316e-05	3.147e-05	GPRC5D
ENSG00000111319	-1.825	1.498e-61	3.838e-60	SCNN1A
ENSG00000111325	-1.145	0.0004505	0.0009281	OGFOD2
ENSG00000111331	-1.875	1.86e-33	1.919e-32	OAS3
ENSG00000111371	1.373	1.566e-65	4.516e-64	SLC38A1
ENSG00000111405	2.659	0.0001091	0.0002405	ENDOU
ENSG00000111412	1.412	5.167e-64	1.419e-62	C12orf49
ENSG00000111424	-1.91	2.731e-41	3.782e-40	VDR
ENSG00000111432	-3	0.0004897	0.001006	FZD10
ENSG00000111445	-1.577	7.607e-25	5.466e-24	RFC5
ENSG00000111452	3.324	0.0001956	0.0004188	GPR133
ENSG00000111490	-2.223	1.528e-30	1.394e-29	TBC1D30
ENSG00000111530	-1.251	5.084e-33	5.185e-32	CAND1
ENSG00000111540	-1.069	7.775e-18	4.038e-17	RAB5B
ENSG00000111554	-1.997	3.055e-18	1.623e-17	MDM1
ENSG00000111602	-2.329	3.987e-112	3.281e-110	TIMELESS
ENSG00000111641	-1.016	8.267e-27	6.484e-26	NOP2
ENSG00000111642	-1.385	9.952e-33	1e-31	CHD4
ENSG00000111644	2.42	0.0002302	0.0004898	ACRBP
ENSG00000111665	-2.579	8.493e-99	5.34e-97	CDCA3
ENSG00000111666	-1.089	1.349e-06	3.521e-06	CHPT1
ENSG00000111670	-2.617	2.355e-90	1.251e-88	GNPTAB
ENSG00000111671	-2.282	8.691e-16	4.069e-15	SPSB2
ENSG00000111674	-1.169	1.315e-09	4.31e-09	ENO2
ENSG00000111679	-2.375	1.746e-61	4.454e-60	PTPN6
ENSG00000111696	1.536	1.591e-33	1.647e-32	NT5DC3
ENSG00000111700	1.09	9.176e-16	4.292e-15	SLCO1B3
ENSG00000111731	-2.412	8.052e-73	2.781e-71	C2CD5
ENSG00000111785	-1.767	8.44e-26	6.367e-25	RIC8B
ENSG00000111816	-2.278	8.425e-48	1.423e-46	FRK
ENSG00000111837	-1.506	8.24e-05	0.0001834	MAK

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ENSG00000111850	-2.134	2.88e-08	8.56e-08	SMIM8
ENSG00000111863	1.528	3.673e-21	2.241e-20	ADTRP
ENSG00000111877	-1.619	1.814e-39	2.366e-38	MCM9
ENSG00000111885	-1.069	4.092e-11	1.48e-10	MAN1A1
ENSG00000111886	1.907	1.849e-08	5.566e-08	GABRR2
ENSG00000111961	-1.098	3.771e-16	1.803e-15	SASH1
ENSG00000111981	1.393	1.347e-06	3.516e-06	ULBP1
ENSG00000112029	-2.882	9.954e-41	1.349e-39	FBXO5
ENSG00000112039	-2.878	1.952e-32	1.94e-31	FANCE
ENSG00000112041	-1.766	0.02214	0.03622	TULP1
ENSG00000112053	1.744	0.01932	0.03193	SLC26A8
ENSG00000112078	-1.833	2.22e-49	3.927e-48	KCTD20
ENSG00000112079	-1.105	9.582e-33	9.637e-32	STK38
ENSG00000112096	1.589	1.042e-40	1.411e-39	SOD2
ENSG00000112118	-3.387	2.613e-158	4.82e-156	MCM3
ENSG00000112130	-1.693	3.076e-31	2.892e-30	RNF8
ENSG00000112137	2.226	0.0002179	0.0004651	PHACTR1
ENSG00000112139	-1.047	5.512e-07	1.485e-06	MDGA1
ENSG00000112144	-1.83	2.604e-23	1.745e-22	ICK
ENSG00000112167	-1.931	6.173e-19	3.387e-18	SAYSD1
ENSG00000112183	2.114	1.168e-26	9.097e-26	RBM24
ENSG00000112195	2.898	0.003104	0.005787	TREML2
ENSG00000112208	-1.769	3.04e-25	2.232e-24	BAG2
ENSG00000112218	-3.224	1.855e-06	4.777e-06	GPR63
ENSG00000112234	-2.75	1.886e-50	3.423e-49	FBXL4
ENSG00000112245	1.525	1.35e-45	2.142e-44	PTP4A1
ENSG00000112246	3.547	0.003434	0.006355	SIM1
ENSG00000112276	-1.333	0.009791	0.01699	BVES
ENSG00000112293	-1.479	1.749e-06	4.517e-06	GPLD1
ENSG00000112294	-1.505	7.69e-39	9.853e-38	ALDH5A1
ENSG00000112297	-2.814	3.156e-185	8.279e-183	AIM1
ENSG00000112299	1.707	0.0003838	0.0007975	VNN1
ENSG00000112309	1.134	5.417e-05	0.0001229	B3GAT2
ENSG00000112312	-2.609	1.168e-89	6.089e-88	GMNN
ENSG00000112335	1.22	1.692e-16	8.203e-16	SNX3
ENSG00000112343	-1.152	5.639e-23	3.709e-22	TRIM38
ENSG00000112365	-2.293	2.18e-33	2.245e-32	ZBTB24
ENSG00000112394	-1.513	0.004451	0.008105	SLC16A10
ENSG00000112419	-1.286	1.67e-27	1.346e-26	PHACTR2
ENSG00000112511	1.128	1.676e-17	8.56e-17	PHF1
ENSG00000112531	1.94	1.34e-89	6.963e-88	QKI
ENSG00000112541	3.434	5.406e-06	1.338e-05	PDE10A
ENSG00000112562	7.067	1.524e-15	7.04e-15	SMOC2
ENSG00000112599	-2.046	0.0118	0.02022	GUCA1B

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ENSG00000112624	-1.45	1.277e-12	5.057e-12	GLTSCR1L
ENSG00000112640	-1.288	6.035e-36	6.891e-35	PPP2R5D
ENSG00000112651	-1.191	5.359e-17	2.673e-16	MRPL2
ENSG00000112655	-2.346	9.145e-53	1.771e-51	PTK7
ENSG00000112659	-1.646	5.995e-40	7.917e-39	CUL9
ENSG00000112679	-1.121	1.19e-13	5.01e-13	DUSP22
ENSG00000112685	-1.145	6.15e-25	4.44e-24	EXOC2
ENSG00000112715	1.852	1.461e-106	1.076e-104	VEGFA
ENSG00000112742	-1.045	2.286e-12	8.915e-12	TTK
ENSG00000112759	-1.98	8.756e-65	2.466e-63	SLC29A1
ENSG00000112769	-2.266	1.463e-72	5.022e-71	LAMA4
ENSG00000112796	-3.351	9.825e-24	6.735e-23	ENPP5
ENSG00000112812	-1.058	1.078e-06	2.84e-06	PRSS16
ENSG00000112855	-1.663	9.13e-19	4.969e-18	HARS2
ENSG00000112874	-1.484	4.628e-25	3.364e-24	NUDT12
ENSG00000112902	-1.421	1.487e-24	1.057e-23	SEMA5A
ENSG00000112984	-4.801	1.709e-281	1.063e-278	KIF20A
ENSG00000112992	-1.213	6.336e-19	3.473e-18	NNT
ENSG00000113013	1.089	5.69e-32	5.544e-31	HSPA9
ENSG00000113070	4.032	8.381e-148	1.279e-145	HBEGF
ENSG00000113119	-1.175	6.134e-09	1.916e-08	TMCO6
ENSG00000113194	1.374	4.284e-80	1.763e-78	FAF2
ENSG00000113231	-1.391	0.0007665	0.001539	PDE8B
ENSG00000113263	3.932	0.0004467	0.0009207	ITK
ENSG00000113273	-2.048	8.111e-33	8.177e-32	ARSB
ENSG00000113356	-1.172	3.511e-11	1.276e-10	POLR3G
ENSG00000113360	-1.628	5.689e-32	5.544e-31	DROSHA
ENSG00000113368	-3.583	2.156e-307	1.645e-304	LMNB1
ENSG00000113441	-1.276	8.035e-26	6.072e-25	LNPEP
ENSG00000113456	-1.659	1.831e-32	1.823e-31	RAD1
ENSG00000113494	5.413	1.863e-08	5.606e-08	PRLR
ENSG00000113555	1.464	8.734e-07	2.32e-06	PCDH12
ENSG00000113578	1.509	3.262e-05	7.536e-05	FGF1
ENSG00000113583	-1.362	6.116e-38	7.582e-37	C5orf15
ENSG00000113600	3.049	0.02328	0.03793	C9
ENSG00000113615	2.009	1.833e-32	1.824e-31	SEC24A
ENSG00000113621	-2.278	2.76e-43	4.09e-42	TXNDC15
ENSG00000113657	3.622	1.611e-05	3.822e-05	DPYSL3
ENSG00000113658	-1.542	2.076e-39	2.691e-38	SMAD5
ENSG00000113742	1.745	2.088e-86	1.019e-84	CPEB4
ENSG00000113758	-1.133	1.838e-27	1.478e-26	DBN1
ENSG00000113763	-1.114	1.12e-08	3.424e-08	UNC5A
ENSG00000113790	-3.006	1.218e-21	7.595e-21	EHHADH
ENSG00000113811	2.141	3.863e-24	2.691e-23	SELK

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ENSG00000113812	-1.411	6.012e-22	3.79e-21	ACTR8
ENSG00000113838	-1.617	1.815e-16	8.791e-16	TBCCD1
ENSG00000113905	7.173	4.352e-44	6.604e-43	HRG
ENSG00000113916	1.466	8.275e-19	4.511e-18	BCL6
ENSG00000113966	-1.153	2.401e-11	8.825e-11	ARL6
ENSG00000114026	-1.662	2.248e-25	1.661e-24	OGG1
ENSG00000114098	-2.168	9.988e-38	1.23e-36	ARMC8
ENSG00000114120	-1.398	8.579e-49	1.494e-47	SLC25A36
ENSG00000114124	2.964	0.0005091	0.001044	GRK7
ENSG00000114126	-1.426	4.289e-16	2.045e-15	TFDP2
ENSG00000114279	-1.003	0.003503	0.006475	FGF12
ENSG00000114346	-1	1.11e-21	6.94e-21	ECT2
ENSG00000114388	-1.216	1.291e-14	5.691e-14	NPRL2
ENSG00000114416	1.279	1.555e-72	5.317e-71	FXR1
ENSG00000114423	1.238	1.65e-12	6.484e-12	CBLB
ENSG00000114439	-1.346	7.938e-35	8.72e-34	BBX
ENSG00000114450	-1.457	8.083e-08	2.327e-07	GNB4
ENSG00000114480	1.1	8.201e-15	3.665e-14	GBE1
ENSG00000114491	-2.184	1.933e-28	1.621e-27	UMPS
ENSG00000114554	-1.576	1.081e-27	8.812e-27	PLXNA1
ENSG00000114631	-2.158	2.353e-56	5.032e-55	PODXL2
ENSG00000114648	1.687	1.946e-45	3.073e-44	KLHL18
ENSG00000114650	-1.008	1.915e-14	8.375e-14	SCAP
ENSG00000114698	-1.733	0.02552	0.04129	PLSCR4
ENSG00000114735	-2.549	1.465e-34	1.594e-33	HEMK1
ENSG00000114737	-2.359	3.985e-09	1.26e-08	CISH
ENSG00000114739	-1.993	8.375e-25	6.003e-24	ACVR2B
ENSG00000114744	-1.042	3.385e-23	2.255e-22	COMMD2
ENSG00000114745	-2.174	2.3e-42	3.305e-41	GORASP1
ENSG00000114757	-1.773	0.006393	0.01141	PEX5L
ENSG00000114770	-1.082	2.216e-40	2.964e-39	ABCC5
ENSG00000114771	2.31	2.594e-30	2.345e-29	AADAC
ENSG00000114790	-1.589	2.987e-11	1.089e-10	ARHGEF26
ENSG00000114796	1.597	2.535e-31	2.401e-30	KLHL24
ENSG00000114812	-1.931	2.132e-11	7.865e-11	VIPR1
ENSG00000114841	1.009	3.278e-13	1.344e-12	DNAH1
ENSG00000114853	-2.6	3.167e-12	1.225e-11	ZBTB47
ENSG00000114859	-1.058	3.595e-09	1.141e-08	CLCN2
ENSG00000114904	-1.057	6.656e-21	4.007e-20	NEK4
ENSG00000114923	-1.378	3.603e-10	1.224e-09	SLC4A3
ENSG00000114948	-1.288	2.613e-05	6.086e-05	ADAM23
ENSG00000114993	-1.847	8.179e-67	2.447e-65	RTKN
ENSG00000114999	-1.352	9.038e-32	8.744e-31	TTL
ENSG00000115008	3.178	4.786e-16	2.275e-15	IL1A

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ENSG00000115009	5.036	2.508e-34	2.704e-33	CCL20
ENSG00000115073	-1.587	4.237e-12	1.626e-11	ACTR1B
ENSG00000115091	1.313	3.763e-83	1.684e-81	ACTR3
ENSG00000115107	-2.495	2.579e-82	1.13e-80	STEAP3
ENSG00000115112	-3.154	2.811e-45	4.409e-44	TFCP2L1
ENSG00000115129	-1.749	1.177e-15	5.48e-15	TP53I3
ENSG00000115137	1.152	0.0006839	0.001381	DNAJC27
ENSG00000115163	-1.902	5.612e-21	3.395e-20	CENPA
ENSG00000115183	-2.365	1.351e-69	4.304e-68	TANC1
ENSG00000115194	-1.263	0.000874	0.001744	SLC30A3
ENSG00000115207	-1.469	7.52e-26	5.689e-25	GTF3C2
ENSG00000115233	1.407	2.561e-52	4.902e-51	PSMD14
ENSG00000115234	-1.657	1.109e-21	6.94e-21	SNX17
ENSG00000115266	1.614	5.069e-13	2.056e-12	APC2
ENSG00000115271	-1.39	4.903e-09	1.542e-08	GCA
ENSG00000115275	-2.026	5.803e-41	7.958e-40	MOGS
ENSG00000115282	-1.385	1.063e-20	6.331e-20	TTC31
ENSG00000115306	-1.358	7.075e-48	1.2e-46	SPTBN1
ENSG00000115310	1.637	1.771e-96	1.077e-94	RTN4
ENSG00000115318	-1.656	6.247e-13	2.52e-12	LOXL3
ENSG00000115325	-2.152	7.763e-09	2.408e-08	DOK1
ENSG00000115363	-2.102	2.889e-12	1.119e-11	EVA1A
ENSG00000115365	-1.266	6.98e-24	4.816e-23	LANCL1
ENSG00000115368	-1.701	9.763e-30	8.653e-29	WDR75
ENSG00000115392	-1.832	7.107e-35	7.817e-34	FANCL
ENSG00000115419	1.549	7.604e-34	8.002e-33	GLS
ENSG00000115446	-1.205	5.517e-12	2.103e-11	UNC50
ENSG00000115461	-1.916	3.262e-30	2.933e-29	IGFBP5
ENSG00000115474	2.075	0.001538	0.002989	KCNJ13
ENSG00000115507	-2.184	1.756e-13	7.331e-13	OTX1
ENSG00000115520	1.307	1.659e-33	1.714e-32	COQ10B
ENSG00000115526	-4.213	6.828e-31	6.329e-30	CHST10
ENSG00000115568	-1.298	3.707e-20	2.153e-19	ZNF142
ENSG00000115592	3.031	0.02445	0.03966	PRKAG3
ENSG00000115594	-2.02	4.493e-18	2.367e-17	IL1R1
ENSG00000115596	-2.869	2.335e-16	1.127e-15	WNT6
ENSG00000115602	3.001	2.465e-199	8.444e-197	IL1RL1
ENSG00000115641	1.794	5.52e-67	1.657e-65	FHL2
ENSG00000115648	-1.116	2.896e-17	1.463e-16	MLPH
ENSG00000115687	-2.199	3.092e-32	3.049e-31	PASK
ENSG00000115738	4.312	3.94e-46	6.347e-45	ID2
ENSG00000115756	1.565	6.273e-34	6.631e-33	HPCAL1
ENSG00000115825	-1.009	5.438e-24	3.772e-23	PRKD3
ENSG00000115827	-1.646	1.825e-40	2.459e-39	DCAF17

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ENSG00000115840	-2.934	4.199e-96	2.545e-94	SLC25A12
ENSG00000115841	-1.87	6.3e-08	1.826e-07	RMDN2
ENSG00000115844	3.843	3.5e-20	2.037e-19	DLX2
ENSG00000115884	-3.865	5.831e-83	2.576e-81	SDC1
ENSG00000115902	1.262	1.622e-07	4.569e-07	SLC1A4
ENSG00000115942	-1.941	7.416e-58	1.664e-56	ORC2
ENSG00000115963	2.524	1.624e-150	2.672e-148	RND3
ENSG00000115970	-1.068	3.99e-13	1.627e-12	THADA
ENSG00000115998	1.432	1.727e-12	6.777e-12	C2orf42
ENSG00000116005	-1.816	5.78e-58	1.302e-56	PCYOX1
ENSG00000116017	-1.926	7.318e-50	1.311e-48	ARID3A
ENSG00000116035	-3.4	0.002637	0.00497	VAX2
ENSG00000116044	2.264	5.076e-58	1.148e-56	NFE2L2
ENSG00000116062	-2.422	1.9e-101	1.276e-99	MSH6
ENSG00000116096	-1.817	5.584e-29	4.802e-28	SPR
ENSG00000116133	-1.804	2.778e-82	1.208e-80	DHCR24
ENSG00000116138	-2.06	9.595e-29	8.184e-28	DNAJC16
ENSG00000116141	-1.995	4.023e-07	1.098e-06	MARK1
ENSG00000116151	-1.876	7.796e-20	4.459e-19	MORN1
ENSG00000116161	1.928	2.644e-110	2.094e-108	CACYBP
ENSG00000116183	5.269	8.316e-08	2.392e-07	PAPPA2
ENSG00000116213	-1.011	7.685e-07	2.049e-06	WRAP73
ENSG00000116237	-2.52	8.664e-107	6.407e-105	ICMT
ENSG00000116285	2.36	2.323e-163	4.587e-161	ERRFI1
ENSG00000116299	2.691	2.486e-16	1.198e-15	KIAA1324
ENSG00000116353	-1.117	7.113e-06	1.743e-05	MECR
ENSG00000116396	-1.729	4.446e-07	1.209e-06	KCNC4
ENSG00000116406	-1.069	1.947e-19	1.094e-18	EDEM3
ENSG00000116497	-1.545	6.62e-33	6.718e-32	S100PBP
ENSG00000116525	-1.238	1.725e-12	6.771e-12	TRIM62
ENSG00000116560	1.023	3.419e-23	2.276e-22	SFPQ
ENSG00000116604	1.208	3.83e-14	1.651e-13	MEF2D
ENSG00000116663	-1.398	3.321e-07	9.134e-07	FBXO6
ENSG00000116667	-1.648	0.00536	0.009673	C1orf21
ENSG00000116668	2.52	2.952e-20	1.721e-19	SWT1
ENSG00000116685	-1.992	5.964e-45	9.243e-44	KIAA2013
ENSG00000116691	-1.918	2.441e-16	1.177e-15	MIP
ENSG00000116701	1.988	4.237e-77	1.628e-75	NCF2
ENSG00000116703	1.813	0.02133	0.03499	PDC
ENSG00000116717	3.171	1.687e-198	5.665e-196	GADD45A
ENSG00000116741	3.631	1.611e-84	7.514e-83	RGS2
ENSG00000116745	1.608	1.006e-08	3.088e-08	RPE65
ENSG00000116761	1.549	4.675e-09	1.472e-08	CTH
ENSG00000116771	-1.743	0.002283	0.004338	AGMAT

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ENSG00000116809	1.017	3.581e-17	1.801e-16	ZBTB17
ENSG00000116833	-3.725	3.142e-27	2.508e-26	NR5A2
ENSG00000116857	-1.127	2.91e-11	1.063e-10	TMEM9
ENSG00000116863	-2.153	4.68e-14	2.011e-13	ADPRHL2
ENSG00000116885	-1.072	9.775e-06	2.366e-05	OSCP1
ENSG00000116903	1.508	6.766e-40	8.929e-39	EXOC8
ENSG00000116962	3.669	4.083e-05	9.362e-05	NID1
ENSG00000116984	-2.355	1.47e-86	7.237e-85	MTR
ENSG00000116990	-2.681	0.0007632	0.001533	MYCL
ENSG00000117000	2.658	3.439e-100	2.246e-98	RLF
ENSG00000117013	-1.879	0.0001324	0.0002885	KCNQ4
ENSG00000117016	-1.291	6.269e-11	2.242e-10	RIMS3
ENSG00000117036	1.656	2.686e-64	7.452e-63	ETV3
ENSG00000117114	1.409	1.337e-22	8.662e-22	LPHN2
ENSG00000117115	-1.187	5.85e-11	2.096e-10	PADI2
ENSG00000117143	1.149	8.904e-46	1.419e-44	UAP1
ENSG00000117152	5.071	3.986e-07	1.089e-06	RGS4
ENSG00000117155	-1.925	1.33e-76	5.064e-75	SSX2IP
ENSG00000117222	1.493	2.314e-54	4.669e-53	RBBP5
ENSG00000117262	1.415	5.715e-15	2.568e-14	GPR89A
ENSG00000117280	-1.91	1.14e-19	6.48e-19	RAB7L1
ENSG00000117281	-1.712	0.0009707	0.001929	CD160
ENSG00000117289	-1.676	1.25e-31	1.202e-30	TXNIP
ENSG00000117305	-1.63	1.439e-15	6.654e-15	HMGCL
ENSG00000117308	-1.094	2.885e-08	8.573e-08	GALE
ENSG00000117318	-2.703	2.653e-60	6.558e-59	ID3
ENSG00000117385	-1.154	1.273e-14	5.615e-14	LEPRE1
ENSG00000117399	-2.837	4.382e-74	1.568e-72	CDC20
ENSG00000117411	-1.467	1.899e-39	2.472e-38	B4GALT2
ENSG00000117461	-2.262	2.982e-90	1.574e-88	PIK3R3
ENSG00000117475	1.107	1.168e-28	9.918e-28	BLZF1
ENSG00000117477	3.774	2.535e-08	7.565e-08	CCDC181
ENSG00000117481	-2.243	1.365e-21	8.498e-21	NSUN4
ENSG00000117519	1.156	7.563e-60	1.84e-58	CNN3
ENSG00000117593	-1.674	1.012e-42	1.467e-41	DARS2
ENSG00000117602	-2.286	6.308e-36	7.199e-35	RCAN3
ENSG00000117614	1.612	3.215e-36	3.717e-35	SYF2
ENSG00000117620	-1.49	6.661e-28	5.473e-27	SLC35A3
ENSG00000117625	-1.784	2.772e-32	2.744e-31	RCOR3
ENSG00000117643	-2.009	0.006939	0.01232	MAN1C1
ENSG00000117650	-2.588	2.78e-95	1.66e-93	NEK2
ENSG00000117676	-1.265	5.998e-29	5.15e-28	RPS6KA1
ENSG00000117697	-1.374	2.83e-22	1.81e-21	NSL1
ENSG00000117724	-3.446	9.057e-145	1.299e-142	CENPF

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ENSG00000117751	-1.676	1.034e-37	1.273e-36	PPP1R8
ENSG00000117791	-1.77	7.87e-18	4.085e-17	MARC2
ENSG00000117877	-2.103	5.967e-35	6.589e-34	CD3EAP
ENSG00000117899	-1.172	2.853e-23	1.909e-22	MESDC2
ENSG00000118007	-1.044	3.397e-21	2.075e-20	STAG1
ENSG00000118046	-1.548	2.315e-21	1.425e-20	STK11
ENSG00000118058	-1.57	1.936e-27	1.554e-26	KMT2A
ENSG00000118096	-2.436	2.681e-17	1.357e-16	IFT46
ENSG00000118160	3.635	1.399e-12	5.527e-12	SLC8A2
ENSG00000118194	5.039	2.345e-55	4.871e-54	TNNT2
ENSG00000118197	-1.312	2.493e-23	1.673e-22	DDX59
ENSG00000118242	1.023	9.784e-08	2.801e-07	MREG
ENSG00000118246	-3.067	9.4e-105	6.772e-103	FASTKD2
ENSG00000118257	-3.958	1.477e-105	1.068e-103	NRP2
ENSG00000118276	-1.621	5.147e-24	3.574e-23	B4GALT6
ENSG00000118407	3.03	1.412e-10	4.931e-10	FILIP1
ENSG00000118432	5.083	3.576e-07	9.806e-07	CNR1
ENSG00000118496	2.744	1.143e-124	1.238e-122	FBXO30
ENSG00000118503	3.344	3.491e-152	5.92e-150	TNFAIP3
ENSG00000118507	-1.25	0.001023	0.002029	AKAP7
ENSG00000118513	-4.639	2.164e-20	1.274e-19	MYB
ENSG00000118515	2.707	9.008e-121	9.164e-119	SGK1
ENSG00000118523	1.061	1.165e-21	7.275e-21	CTGF
ENSG00000118557	1.381	0.009262	0.01613	PMFBP1
ENSG00000118564	-1.186	1.009e-14	4.485e-14	FBXL5
ENSG00000118600	-1.588	1.194e-28	1.013e-27	TMEM5
ENSG00000118620	2.125	1.385e-14	6.101e-14	ZNF430
ENSG00000118655	-2.528	2.62e-53	5.15e-52	DCLRE1B
ENSG00000118690	-1.186	0.001128	0.002225	ARMC2
ENSG00000118707	-1.477	1.312e-20	7.778e-20	TGIF2
ENSG00000118762	-1.859	5.144e-25	3.73e-24	PKD2
ENSG00000118777	-1.015	3.363e-29	2.921e-28	ABCG2
ENSG00000118804	-2.084	0.0001118	0.0002461	FAM47E-STBD1
ENSG00000118894	-2.946	2.702e-42	3.873e-41	FAM86A
ENSG00000118898	-1.89	2.303e-114	1.963e-112	PPL
ENSG00000118900	-1.038	2.977e-23	1.991e-22	UBN1
ENSG00000118960	-1.715	6.242e-14	2.664e-13	HS1BP3
ENSG00000118965	-1.485	3.961e-16	1.891e-15	WDR35
ENSG00000118985	2.684	8.919e-77	3.403e-75	ELL2
ENSG00000118997	-1.714	0.0007833	0.001571	DNAH7
ENSG00000119004	-1.812	2.384e-18	1.274e-17	CYP20A1
ENSG00000119048	1.553	1.383e-64	3.882e-63	UBE2B
ENSG00000119203	-1.18	2.374e-34	2.569e-33	CPSF3
ENSG00000119227	-1.215	0.007294	0.01291	PIGZ

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ENSG00000119280	-1.038	4.585e-16	2.182e-15	C1orf198
ENSG00000119285	-1.075	4.858e-46	7.789e-45	HEATR1
ENSG00000119333	-1.002	4.956e-07	1.342e-06	WDR34
ENSG00000119383	-1.062	1.729e-07	4.854e-07	PPP2R4
ENSG00000119401	-1.342	7.317e-29	6.273e-28	TRIM32
ENSG00000119402	-1.226	2.162e-31	2.056e-30	FBXW2
ENSG00000119403	-2.064	2.423e-46	3.929e-45	PHF19
ENSG00000119408	-2.209	1.243e-50	2.275e-49	NEK6
ENSG00000119411	-1.127	2.161e-12	8.436e-12	BSPRY
ENSG00000119414	1.137	2.491e-31	2.361e-30	PPP6C
ENSG00000119431	-2.526	5.948e-22	3.751e-21	HDHD3
ENSG00000119508	3.485	3.316e-16	1.59e-15	NR4A3
ENSG00000119514	-1.428	3.467e-34	3.717e-33	GALNT12
ENSG00000119522	-1.048	3.654e-14	1.576e-13	DENND1A
ENSG00000119541	1.645	9.859e-64	2.678e-62	VPS4B
ENSG00000119547	-2.819	2.753e-54	5.548e-53	ONECUT2
ENSG00000119574	-2.704	1.574e-41	2.206e-40	ZBTB45
ENSG00000119596	-1.522	7.36e-14	3.13e-13	YLPM1
ENSG00000119608	-2.206	5.052e-20	2.916e-19	PROX2
ENSG00000119630	3.809	6.954e-25	5.01e-24	PGF
ENSG00000119638	-1.042	5.699e-17	2.835e-16	NEK9
ENSG00000119661	-1.172	2.291e-10	7.899e-10	DNAL1
ENSG00000119669	-4.266	2.42e-147	3.628e-145	IRF2BPL
ENSG00000119673	-2.469	3.087e-25	2.263e-24	ACOT2
ENSG00000119684	-1.599	4.104e-61	1.036e-59	MLH3
ENSG00000119685	-1.017	1.964e-08	5.903e-08	TTLL5
ENSG00000119686	-1.546	5.41e-09	1.696e-08	FLVCR2
ENSG00000119688	-1.181	2.867e-12	1.112e-11	ABCD4
ENSG00000119699	-1.568	0.003233	0.006009	TGFB3
ENSG00000119703	-1.331	1.846e-10	6.392e-10	ZC2HC1C
ENSG00000119707	1.123	2.427e-15	1.111e-14	RBM25
ENSG00000119715	1.749	0.02661	0.04293	ESRRB
ENSG00000119737	1.907	8.046e-10	2.675e-09	GPR75
ENSG00000119772	-1.162	3.783e-29	3.283e-28	DNMT3A
ENSG00000119787	-1.516	4.822e-47	8.03e-46	ATL2
ENSG00000119801	2.032	9.495e-63	2.53e-61	YPEL5
ENSG00000119865	3.789	6.46e-09	2.014e-08	CNRIP1
ENSG00000119900	-1.993	3.304e-37	3.978e-36	OGFRL1
ENSG00000119906	-3.063	5.487e-153	9.399e-151	FAM178A
ENSG00000119915	-2.928	5.508e-10	1.848e-09	ELOVL3
ENSG00000119917	-2.252	1.294e-08	3.936e-08	IFIT3
ENSG00000119922	-2.875	1.839e-26	1.422e-25	IFIT2
ENSG00000119927	-2.025	1.423e-34	1.55e-33	GPAM
ENSG00000119938	4.791	6.307e-27	4.966e-26	PPP1R3C

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ENSG00000119946	-3.158	1.055e-24	7.541e-24	CNNM1
ENSG00000119953	1.405	3.084e-58	7.023e-57	SMNDC1
ENSG00000119969	-1.187	9.031e-17	4.447e-16	HELLS
ENSG00000119977	-1.816	9.759e-38	1.204e-36	TCTN3
ENSG00000119979	-1.869	5.871e-47	9.737e-46	FAM45A
ENSG00000120049	-1.764	0.0005437	0.001111	KCNIP2
ENSG00000120051	2.876	1.823e-05	4.305e-05	CCDC147
ENSG00000120055	-1.66	0.0001597	0.0003449	C10orf95
ENSG00000120071	1.275	2.84e-28	2.36e-27	KANSL1
ENSG00000120075	-3.633	2.929e-19	1.631e-18	HOXB5
ENSG00000120088	3.174	0.009059	0.0158	CRHR1
ENSG00000120093	-4.073	1.036e-34	1.137e-33	HOXB3
ENSG00000120129	5.477	0	0	DUSP1
ENSG00000120162	-2.652	3.027e-29	2.632e-28	MOB3B
ENSG00000120211	2.702	6.014e-13	2.428e-12	INSL4
ENSG00000120215	1.506	0.01891	0.0313	MLANA
ENSG00000120217	1.552	1.006e-17	5.204e-17	CD274
ENSG00000120253	-1.477	2.148e-45	3.382e-44	NUP43
ENSG00000120256	-1.386	1.468e-38	1.856e-37	LRP11
ENSG00000120278	-1.903	2.881e-14	1.251e-13	PLEKHG1
ENSG00000120279	6.372	4.717e-12	1.806e-11	MYCT1
ENSG00000120314	-1.086	1.459e-28	1.232e-27	WDR55
ENSG00000120318	-2.154	4.59e-38	5.72e-37	ARAP3
ENSG00000120337	4.956	3.552e-14	1.533e-13	TNFSF18
ENSG00000120438	1.242	6.485e-41	8.85e-40	TCP1
ENSG00000120471	2.776	0.002903	0.00543	TP53AIP1
ENSG00000120549	2.472	7.569e-37	8.967e-36	KIAA1217
ENSG00000120586	3.555	3.011e-16	1.446e-15	MRC1
ENSG00000120645	4.761	3.292e-06	8.303e-06	IQSEC3
ENSG00000120647	1.943	1.13e-58	2.607e-57	CCDC77
ENSG00000120658	-1.039	5.449e-06	1.348e-05	ENOX1
ENSG00000120662	1.249	4.994e-26	3.809e-25	MTRF1
ENSG00000120686	2.02	1.719e-107	1.294e-105	UFM1
ENSG00000120688	-2.291	1.099e-41	1.547e-40	WBP4
ENSG00000120690	-1.616	1.117e-55	2.338e-54	ELF1
ENSG00000120693	-2.988	2.707e-06	6.86e-06	SMAD9
ENSG00000120694	4.078	0	0	HSPH1
ENSG00000120696	-3.109	4.468e-33	4.562e-32	KBTD7
ENSG00000120705	1.437	1.696e-57	3.781e-56	ETF1
ENSG00000120733	-1.296	1.195e-34	1.306e-33	KDM3B
ENSG00000120738	1.388	2.852e-08	8.48e-08	EGR1
ENSG00000120742	1.042	3.49e-25	2.548e-24	SERP1
ENSG00000120784	-2.754	4.842e-05	0.0001103	ZFP30
ENSG00000120802	-2.854	2.654e-252	1.437e-249	TMPO

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ENSG00000120805	-1.006	3.15e-16	1.512e-15	ARL1
ENSG00000120832	-2.419	8.051e-25	5.781e-24	MTERFD3
ENSG00000120833	-1.295	7.261e-17	3.593e-16	SOCS2
ENSG00000120868	-2.276	2.343e-29	2.048e-28	APAF1
ENSG00000120875	-2.358	2.504e-187	6.78e-185	DUSP4
ENSG00000120885	1.515	1.66e-28	1.398e-27	CLU
ENSG00000120889	1.031	1.713e-13	7.158e-13	TNFRSF10B
ENSG00000120896	-1.343	3.154e-17	1.59e-16	SORBS3
ENSG00000120903	3.149	0.01045	0.01805	CHRNA2
ENSG00000120913	-1.053	4.983e-08	1.455e-07	PDLIM2
ENSG00000120925	-1.974	7.689e-21	4.608e-20	RNF170
ENSG00000120937	3.093	0.01211	0.02071	NPPB
ENSG00000120942	-1.468	3.705e-19	2.054e-18	UBIAD1
ENSG00000120949	2.791	0.0002693	0.0005688	TNFRSF8
ENSG00000121057	-3.235	5.178e-188	1.449e-185	AKAP1
ENSG00000121058	-1.089	1.74e-20	1.026e-19	COIL
ENSG00000121068	-1.62	0.0001264	0.0002761	TBX2
ENSG00000121075	2.962	0.02073	0.03408	TBX4
ENSG00000121152	-2.666	2.526e-129	2.945e-127	NCAPH
ENSG00000121210	-2.073	7.719e-34	8.113e-33	KIAA0922
ENSG00000121211	-1.412	2.414e-08	7.212e-08	MND1
ENSG00000121236	-2.802	3.005e-26	2.306e-25	TRIM6
ENSG00000121270	2.803	1.37e-13	5.75e-13	ABCC11
ENSG00000121289	-1.027	1.463e-12	5.772e-12	CEP89
ENSG00000121310	-2.046	4.513e-27	3.577e-26	ECHDC2
ENSG00000121318	-1.443	0.002055	0.003934	TAS2R10
ENSG00000121350	1.418	5.544e-42	7.88e-41	PYROXD1
ENSG00000121413	-1.433	0.0007696	0.001545	ZSCAN18
ENSG00000121440	2.987	0.02765	0.04444	PDZRN3
ENSG00000121454	-1.445	2.196e-22	1.411e-21	LHX4
ENSG00000121486	-1.5	9.968e-18	5.159e-17	TRMT1L
ENSG00000121542	-1.746	1.645e-31	1.574e-30	SEC22A
ENSG00000121578	-1.796	6.489e-51	1.194e-49	B4GALT4
ENSG00000121621	-1.634	3.812e-23	2.532e-22	KIF18A
ENSG00000121671	1.388	4.824e-14	2.071e-13	CRY2
ENSG00000121690	-1.949	2.449e-06	6.234e-06	DEPDC7
ENSG00000121741	-1.096	4.956e-29	4.273e-28	ZMYM2
ENSG00000121749	1.645	4.313e-46	6.941e-45	TBC1D15
ENSG00000121753	-2.039	2.966e-32	2.932e-31	BAI2
ENSG00000121764	3.78	1.717e-09	5.575e-09	HCRTR1
ENSG00000121775	-1.814	3.37e-27	2.685e-26	TMEM39B
ENSG00000121851	-1.477	5.959e-09	1.863e-08	POLR3GL
ENSG00000121853	3.303	0.01299	0.02211	GHSR
ENSG00000121864	-1.378	2.56e-18	1.366e-17	ZNF639

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ENSG00000121931	1.466	2.526e-32	2.505e-31	LRIF1
ENSG00000121957	-2.51	7.219e-109	5.584e-107	GPSM2
ENSG00000122033	-1.218	2.963e-12	1.147e-11	MTIF3
ENSG00000122035	-1.329	4.3e-05	9.838e-05	RASL11A
ENSG00000122042	2.319	7.202e-100	4.668e-98	UBL3
ENSG00000122122	3.422	5.692e-05	0.0001289	SASH3
ENSG00000122126	-1.18	6.177e-34	6.537e-33	OCRL
ENSG00000122140	-1.849	1.47e-33	1.525e-32	MRPS2
ENSG00000122218	1.339	6.962e-72	2.337e-70	COPA
ENSG00000122223	2.603	0.02059	0.03387	CD244
ENSG00000122386	-1.095	3.799e-07	1.04e-06	ZNF205
ENSG00000122417	-1.678	1.882e-27	1.511e-26	ODF2L
ENSG00000122481	-1.536	4.488e-13	1.827e-12	RWDD3
ENSG00000122484	-1.52	6.254e-14	2.668e-13	RPAP2
ENSG00000122512	-1.357	8.51e-30	7.546e-29	PMS2
ENSG00000122547	-3.178	5.121e-32	5.007e-31	EEPD1
ENSG00000122557	-2.444	7.231e-52	1.367e-50	HERPUD2
ENSG00000122565	-1.006	1.713e-11	6.347e-11	CBX3
ENSG00000122591	-1.094	9.024e-23	5.894e-22	FAM126A
ENSG00000122641	1.934	2.699e-134	3.331e-132	INHBA
ENSG00000122644	-1.232	3.165e-10	1.081e-09	ARL4A
ENSG00000122678	-1.623	1.141e-26	8.891e-26	POLM
ENSG00000122687	-1.177	1.65e-16	8.007e-16	FTSJ2
ENSG00000122694	-1.272	4.775e-05	0.0001088	GLIPR2
ENSG00000122711	2.567	0.0279	0.04481	SPINK4
ENSG00000122733	7.814	3.423e-16	1.641e-15	KIAA1045
ENSG00000122741	-1.155	3.403e-22	2.172e-21	DCAF10
ENSG00000122778	-1.654	1.326e-27	1.073e-26	KIAA1549
ENSG00000122779	-1.396	2.551e-09	8.183e-09	TRIM24
ENSG00000122783	-1.861	8.692e-47	1.436e-45	C7orf49
ENSG00000122786	1.093	1.543e-12	6.084e-12	CALD1
ENSG00000122787	1.332	0.019	0.03144	AKR1D1
ENSG00000122862	1.209	1.507e-46	2.463e-45	SRGN
ENSG00000122863	-2.64	5.646e-62	1.465e-60	CHST3
ENSG00000122877	2.906	5.324e-08	1.552e-07	EGR2
ENSG00000122952	-1.135	1.938e-37	2.354e-36	ZWINT
ENSG00000122958	1.053	1.818e-35	2.052e-34	VPS26A
ENSG00000122966	-2.826	3.5e-91	1.902e-89	CIT
ENSG00000122970	-1.289	1.787e-10	6.193e-10	IFT81
ENSG00000122971	-1.555	1.806e-08	5.44e-08	ACADS
ENSG00000123064	-1.142	9.738e-31	8.971e-30	DDX54
ENSG00000123080	-3.69	4.036e-45	6.309e-44	CDKN2C
ENSG00000123095	-3.465	6.371e-116	5.599e-114	BHLHE41
ENSG00000123146	-2.314	1.098e-83	4.997e-82	CD97

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ENSG00000123154	1.238	1.622e-12	6.383e-12	WDR83
ENSG00000123219	-1.06	1.426e-20	8.438e-20	CENPK
ENSG00000123297	-2.484	5.036e-21	3.053e-20	TSFM
ENSG00000123329	2.755	0.02869	0.04598	ARHGAP9
ENSG00000123342	2.402	3.436e-08	1.016e-07	MMP19
ENSG00000123358	6.017	0	0	NR4A1
ENSG00000123364	-2.885	6.213e-85	2.93e-83	HOXC13
ENSG00000123374	-2.384	3.79e-67	1.14e-65	CDK2
ENSG00000123388	-3.028	2.809e-34	3.024e-33	HOXC11
ENSG00000123405	-1.375	0.01136	0.01952	NFE2
ENSG00000123411	-1.468	1.521e-06	3.947e-06	IKZF4
ENSG00000123427	-2.844	4.692e-23	3.096e-22	METTL21B
ENSG00000123444	1.71	5.725e-12	2.18e-11	KBTD4
ENSG00000123472	-1.032	9.425e-16	4.406e-15	ATPAF1
ENSG00000123473	-1.833	7.213e-44	1.088e-42	STIL
ENSG00000123485	-3.018	2.376e-168	4.923e-166	HJURP
ENSG00000123496	3.325	5.76e-07	1.55e-06	IL13RA2
ENSG00000123505	-1.221	1.861e-46	3.028e-45	AMD1
ENSG00000123545	-1.648	3.834e-27	3.046e-26	NDUFAF4
ENSG00000123560	3.118	0.01628	0.02727	PLP1
ENSG00000123570	2.401	0.0009572	0.001903	RAB9B
ENSG00000123572	-1.228	7.062e-07	1.888e-06	NRK
ENSG00000123575	-1.849	5.748e-43	8.383e-42	FAM199X
ENSG00000123600	-2.52	1.392e-80	5.829e-79	METTL8
ENSG00000123610	3.109	0.01368	0.02321	TNFAIP6
ENSG00000123810	-1.473	0.000733	0.001474	B9D2
ENSG00000123843	-1.409	0.01651	0.02761	C4BPB
ENSG00000123892	-1.561	6.275e-12	2.382e-11	RAB38
ENSG00000123908	1.909	7.117e-97	4.36e-95	AGO2
ENSG00000123989	-2.103	2.297e-80	9.544e-79	CHPF
ENSG00000124006	-2.841	7.147e-33	7.235e-32	OBSL1
ENSG00000124091	4.609	2.286e-52	4.391e-51	GCNT7
ENSG00000124092	3.176	0.009296	0.01619	CTCFL
ENSG00000124102	1.425	3.197e-49	5.637e-48	PI3
ENSG00000124103	2.681	1.037e-06	2.736e-06	FAM209A
ENSG00000124104	-2.414	4.969e-22	3.144e-21	SNX21
ENSG00000124160	-1.182	1.802e-35	2.035e-34	NCOA5
ENSG00000124171	3.008	2.764e-101	1.848e-99	PARD6B
ENSG00000124181	-1.35	2.232e-27	1.79e-26	PLCG1
ENSG00000124194	2.882	4.685e-05	0.0001069	GDAP1L1
ENSG00000124201	-1.056	1.757e-35	1.986e-34	ZNFX1
ENSG00000124208	9.877	1.718e-26	1.331e-25	TMEM189-UBE2VI
ENSG00000124209	1.003	4.969e-34	5.269e-33	RAB22A
ENSG00000124212	-3.234	2.193e-30	1.988e-29	PTGIS

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ENSG00000124215	-2.528	2.593e-05	6.043e-05	CDH26
ENSG00000124216	3.59	1.095e-66	3.248e-65	SNAI1
ENSG00000124224	2.197	9.081e-61	2.275e-59	PPP4R1L
ENSG00000124233	3.681	6.465e-05	0.0001455	SEMG1
ENSG00000124253	4.425	2.657e-05	6.181e-05	PCK1
ENSG00000124256	5.145	3.031e-07	8.362e-07	ZBP1
ENSG00000124279	-1.275	7.364e-28	6.038e-27	FASTKD3
ENSG00000124313	-1.931	7.908e-21	4.736e-20	IQSEC2
ENSG00000124370	-2.072	1.964e-12	7.687e-12	MCEE
ENSG00000124391	4.001	0.0007723	0.001551	IL17C
ENSG00000124422	-1.77	1.631e-79	6.551e-78	USP22
ENSG00000124466	1.68	5.514e-37	6.569e-36	LYPD3
ENSG00000124496	-2.569	2.409e-73	8.408e-72	TRERF1
ENSG00000124523	-1.39	8.253e-19	4.501e-18	SIRT5
ENSG00000124532	-1.153	6.195e-28	5.095e-27	MRS2
ENSG00000124541	-1.131	1.443e-24	1.026e-23	RRP36
ENSG00000124574	-1.822	1.417e-34	1.544e-33	ABCC10
ENSG00000124593	-1.777	0.006772	0.01205	PRICKLE4
ENSG00000124608	-3.176	8.896e-42	1.256e-40	AARS2
ENSG00000124641	-1.347	3.297e-14	1.425e-13	MED20
ENSG00000124659	-1.041	2.894e-09	9.247e-09	TBCC
ENSG00000124702	-1.746	2.106e-25	1.562e-24	KLHDC3
ENSG00000124713	2.02	0.01852	0.03072	GNMT
ENSG00000124731	1.686	2.389e-06	6.086e-06	TREM1
ENSG00000124762	4.387	1.676e-174	3.801e-172	CDKN1A
ENSG00000124772	3.764	1.699e-08	5.13e-08	CPNE5
ENSG00000124782	-1.278	2.309e-29	2.02e-28	RREB1
ENSG00000124788	2.674	5.269e-168	1.079e-165	ATXN1
ENSG00000124813	-1.982	2.087e-19	1.17e-18	RUNX2
ENSG00000124831	2.036	3.374e-63	9.017e-62	LRRFIP1
ENSG00000124882	2.334	3.868e-64	1.07e-62	EREG
ENSG00000124942	-1.484	2.764e-16	1.33e-15	AHNAK
ENSG00000125046	2.563	2.572e-27	2.059e-26	SSUH2
ENSG00000125124	-1.001	1.136e-12	4.516e-12	BBS2
ENSG00000125148	3.195	1.023e-84	4.783e-83	MT2A
ENSG00000125247	-1.702	2.545e-17	1.289e-16	TMTC4
ENSG00000125347	-1.296	1.786e-06	4.607e-06	IRF1
ENSG00000125352	-1.053	6.66e-15	2.986e-14	RNF113A
ENSG00000125355	1.324	0.01997	0.03294	TMEM255A
ENSG00000125378	-1.861	9.674e-17	4.749e-16	BMP4
ENSG00000125430	4.217	1.264e-06	3.307e-06	HS3ST3B1
ENSG00000125434	-1.63	1.641e-09	5.343e-09	SLC25A35
ENSG00000125450	-1.105	5.045e-12	1.928e-11	NUP85
ENSG00000125454	-2.539	4.32e-35	4.79e-34	SLC25A19

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ENSG00000125458	-1.302	4.117e-13	1.678e-12	NT5C
ENSG00000125482	1.139	5.293e-38	6.587e-37	TTF1
ENSG00000125508	-1.686	2.65e-05	6.168e-05	SRMS
ENSG00000125510	3.069	0.0005848	0.001192	OPRL1
ENSG00000125538	2.837	1.783e-28	1.498e-27	IL1B
ENSG00000125551	2.715	1.579e-22	1.021e-21	PLGLB2
ENSG00000125618	1.268	1.496e-26	1.163e-25	PAX8
ENSG00000125630	-1.158	1.603e-36	1.864e-35	POLR1B
ENSG00000125637	-2.255	7.122e-33	7.214e-32	PSD4
ENSG00000125657	2.107	1.201e-25	9.011e-25	TNFSF9
ENSG00000125703	-1.292	5.129e-14	2.198e-13	ATG4C
ENSG00000125726	4.1	2.193e-05	5.145e-05	CD70
ENSG00000125735	5.695	5.209e-29	4.484e-28	TNFSF14
ENSG00000125740	7.437	1.579e-296	1.104e-293	FOSB
ENSG00000125775	1.63	5.689e-10	1.907e-09	SDCBP2
ENSG00000125817	-3.194	1.242e-199	4.369e-197	CENPB
ENSG00000125827	-1.1	1.388e-08	4.211e-08	TMX4
ENSG00000125841	-1.342	0.0001797	0.0003864	NRSN2
ENSG00000125843	-2.833	7.684e-51	1.413e-49	AP5S1
ENSG00000125845	1.892	9.093e-14	3.854e-13	BMP2
ENSG00000125846	1.606	2.473e-23	1.661e-22	ZNF133
ENSG00000125848	-1.192	0.029	0.04641	FLRT3
ENSG00000125871	-2.087	4.517e-64	1.243e-62	MGME1
ENSG00000125895	1.434	0.006499	0.01158	TMEM74B
ENSG00000125898	-1.422	2.741e-23	1.836e-22	FAM110A
ENSG00000125901	-3.842	2.351e-144	3.288e-142	MRPS26
ENSG00000125945	2.494	1.432e-111	1.15e-109	ZNF436
ENSG00000125954	3.657	0.005599	0.01007	CHURC1-FNTB
ENSG00000125966	2.86	2.649e-18	1.411e-17	MMP24
ENSG00000125998	2.778	0.03074	0.049	FAM83C
ENSG00000126001	-1.845	9.211e-48	1.554e-46	CEP250
ENSG00000126003	-1.096	2.941e-18	1.564e-17	PLAGL2
ENSG00000126016	-2.419	7.958e-62	2.049e-60	AMOT
ENSG00000126062	-1.067	8.643e-13	3.459e-12	TMEM115
ENSG00000126106	-1.065	0.0005631	0.001149	TMEM53
ENSG00000126215	-1.165	1.33e-37	1.626e-36	XRCC3
ENSG00000126216	-2.074	7.583e-100	4.896e-98	TUBGCP3
ENSG00000126218	2.033	0.003644	0.006724	F10
ENSG00000126243	-2.938	1.294e-19	7.334e-19	LRFN3
ENSG00000126249	-1.256	3.115e-08	9.234e-08	PDCD2L
ENSG00000126351	-1.267	9.866e-06	2.387e-05	THRA
ENSG00000126391	-1.158	0.02487	0.0403	FRMD8
ENSG00000126464	-1.966	3.235e-23	2.156e-22	PRR12
ENSG00000126500	1.534	1.236e-08	3.767e-08	FLRT1

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ENSG00000126524	1.258	1.77e-27	1.425e-26	SBDS
ENSG00000126698	1.144	8.188e-14	3.474e-13	DNAJC8
ENSG00000126705	-1.271	6.463e-20	3.713e-19	AHDC1
ENSG00000126746	1.121	1.042e-10	3.671e-10	ZNF384
ENSG00000126752	3.615	0.001979	0.003797	SSX1
ENSG00000126759	5.033	2.966e-33	3.045e-32	CFP
ENSG00000126773	-1.828	3.579e-62	9.372e-61	PCNXL4
ENSG00000126778	-4.374	1.43e-46	2.339e-45	SIX1
ENSG00000126787	-2.797	4.001e-163	7.808e-161	DLGAP5
ENSG00000126790	-1.114	1.134e-17	5.846e-17	L3HYPDH
ENSG00000126803	-1.59	5.169e-18	2.715e-17	HSPA2
ENSG00000126804	-1.233	2.275e-29	1.991e-28	ZBTB1
ENSG00000126814	-2.21	1.387e-69	4.409e-68	TRMT5
ENSG00000126821	-1.377	1.491e-18	8.054e-18	SGPP1
ENSG00000126822	-2.439	9.349e-80	3.809e-78	PLEKHG3
ENSG00000126856	4.327	9.78e-09	3.005e-08	PRDM7
ENSG00000126858	-1.897	1.063e-53	2.109e-52	RHOT1
ENSG00000126860	2.7	8.883e-07	2.358e-06	EVI2A
ENSG00000126861	1.495	0.0163	0.02729	OMG
ENSG00000126870	-1.484	5.12e-10	1.722e-09	WDR60
ENSG00000126882	-3.528	6.787e-14	2.89e-13	FAM78A
ENSG00000126895	2.815	0.0002956	0.0006224	AVPR2
ENSG00000126903	-2.958	2.161e-40	2.893e-39	SLC10A3
ENSG00000126945	1.022	3.552e-15	1.616e-14	HNRNPH2
ENSG00000126953	-1.405	3.075e-10	1.052e-09	TIMM8A
ENSG00000127081	1.034	1.804e-10	6.248e-10	ZNF484
ENSG00000127084	-4.373	8.011e-85	3.756e-83	FGD3
ENSG00000127125	-1.8	9.773e-37	1.15e-35	PPCS
ENSG00000127129	3.574	4.819e-05	0.0001098	EDN2
ENSG00000127220	-1.271	6.353e-16	2.997e-15	ABHD8
ENSG00000127311	1.636	3.948e-13	1.612e-12	HELB
ENSG00000127329	-1.712	8.055e-12	3.036e-11	PTPRB
ENSG00000127334	-2.214	7.76e-93	4.43e-91	DYRK2
ENSG00000127337	-1.356	7.274e-12	2.751e-11	YEATS4
ENSG00000127419	-1.473	3.93e-08	1.157e-07	TMEM175
ENSG00000127423	-1.899	4.657e-14	2.002e-13	AUNIP
ENSG00000127554	-1.384	4.232e-24	2.946e-23	GFER
ENSG00000127561	-1.816	0.001105	0.002182	SYNGR3
ENSG00000127564	-2.955	7.256e-88	3.625e-86	PKMYT1
ENSG00000127585	-4.166	2.978e-29	2.593e-28	FBXL16
ENSG00000127586	-1.448	1.651e-23	1.116e-22	CHTF18
ENSG00000127663	-1.544	2.02e-10	6.979e-10	KDM4B
ENSG00000127666	1.26	2.035e-06	5.216e-06	TICAM1
ENSG00000127720	-1.293	3.623e-05	8.339e-05	METTL25

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ENSG00000127774	-1.659	2.105e-08	6.314e-08	EMC6
ENSG00000127947	1.345	8.824e-17	4.348e-16	PTPN12
ENSG00000127980	-1.638	5.352e-35	5.918e-34	PEX1
ENSG00000127993	2.197	8.421e-76	3.134e-74	RBM48
ENSG00000127995	-2.058	7.977e-46	1.273e-44	CASD1
ENSG00000128011	-3.661	1.407e-20	8.334e-20	LRFN1
ENSG00000128016	1.861	1.332e-19	7.547e-19	ZFP36
ENSG00000128059	-1.878	2.931e-57	6.481e-56	PPAT
ENSG00000128159	-1.076	3.893e-11	1.411e-10	TUBGCP6
ENSG00000128165	1.709	7.438e-09	2.31e-08	ADM2
ENSG00000128191	-1.95	4.764e-70	1.532e-68	DGCR8
ENSG00000128242	3.312	0.01791	0.02979	GAL3ST1
ENSG00000128245	-2.697	3.375e-94	1.974e-92	YWHAH
ENSG00000128253	4.549	1.092e-07	3.115e-07	RFPL2
ENSG00000128266	-2.843	2.557e-20	1.496e-19	GNAZ
ENSG00000128274	-2.655	9.001e-16	4.212e-15	A4GALT
ENSG00000128283	-1.01	5.394e-07	1.456e-06	CDC42EP1
ENSG00000128284	-2.31	1.179e-07	3.359e-07	APOL3
ENSG00000128309	-1.194	8.809e-09	2.716e-08	MPST
ENSG00000128311	-1.848	2.578e-11	9.457e-11	TST
ENSG00000128342	1.887	1.784e-49	3.166e-48	LIF
ENSG00000128346	-1.142	0.003001	0.005607	C22orf23
ENSG00000128383	1.266	0.001546	0.003003	APOBEC3A
ENSG00000128408	-3.228	1.694e-25	1.262e-24	RIBC2
ENSG00000128422	3.036	4.802e-90	2.527e-88	KRT17
ENSG00000128487	-1.074	1.993e-19	1.118e-18	SPECC1
ENSG00000128510	-1.474	5.439e-33	5.53e-32	CPA4
ENSG00000128512	1.455	2.163e-11	7.975e-11	DOCK4
ENSG00000128513	-1.01	1.189e-21	7.422e-21	POT1
ENSG00000128536	-1.413	0.007323	0.01296	CDHR3
ENSG00000128564	1.15	3.98e-07	1.087e-06	VGf
ENSG00000128567	-1.217	6.817e-25	4.913e-24	PODXL
ENSG00000128590	3.279	5.345e-123	5.608e-121	DNAJB9
ENSG00000128591	1.593	1.129e-34	1.237e-33	FLNC
ENSG00000128595	1.006	9.873e-31	9.086e-30	CALU
ENSG00000128596	-1.734	9.39e-14	3.977e-13	CCDC136
ENSG00000128606	3.445	7.801e-08	2.248e-07	LRRC17
ENSG00000128607	-1.036	1.241e-25	9.306e-25	KLHDC10
ENSG00000128626	-1.604	7.837e-11	2.781e-10	MRPS12
ENSG00000128683	-1.764	3.39e-12	1.306e-11	GAD1
ENSG00000128694	-1.683	2.814e-05	6.533e-05	OSGEPL1
ENSG00000128731	-2.15	8.596e-73	2.963e-71	HERC2
ENSG00000128829	-2.096	5.733e-87	2.839e-85	EIF2AK4
ENSG00000128886	-1.056	0.002179	0.004155	ELL3

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ENSG00000128891	1.14	3.228e-11	1.176e-10	C15orf57
ENSG00000128908	1.124	9.831e-29	8.381e-28	INO80
ENSG00000128928	-2.008	2.318e-38	2.908e-37	IVD
ENSG00000128944	-1.231	1.791e-24	1.27e-23	KNSTRN
ENSG00000128951	-1.323	8.685e-11	3.071e-10	DUT
ENSG00000128965	2.919	1.572e-12	6.19e-12	CHAC1
ENSG00000129003	-1.91	1.177e-49	2.099e-48	VPS13C
ENSG00000129038	-1.931	1.724e-25	1.284e-24	LOXL1
ENSG00000129116	1.275	1.12e-25	8.414e-25	PALLD
ENSG00000129158	-1.001	5.507e-08	1.603e-07	SERGEF
ENSG00000129167	-2.213	1.931e-06	4.965e-06	TPH1
ENSG00000129173	-4.888	6.52e-135	8.107e-133	E2F8
ENSG00000129194	-2.985	4.214e-125	4.623e-123	SOX15
ENSG00000129195	-3.034	3.115e-27	2.488e-26	FAM64A
ENSG00000129204	-1.673	0.02822	0.0453	USP6
ENSG00000129282	-3.258	1.959e-12	7.671e-12	MRM1
ENSG00000129295	-1.257	0.001131	0.002231	LRRC6
ENSG00000129347	-2.254	5.955e-66	1.733e-64	KRI1
ENSG00000129353	-1.138	1.417e-47	2.386e-46	SLC44A2
ENSG00000129437	4.795	8.947e-51	1.643e-49	KLK14
ENSG00000129450	3.639	0.002027	0.003885	SIGLEC9
ENSG00000129460	1.784	2.942e-60	7.261e-59	NGDN
ENSG00000129474	-1.617	1.02e-22	6.644e-22	AJUBA
ENSG00000129480	-2.376	2.3e-57	5.119e-56	DTD2
ENSG00000129484	-1.024	2.816e-16	1.354e-15	PARP2
ENSG00000129493	-1.694	5.165e-37	6.163e-36	HEATR5A
ENSG00000129514	-1.542	7.436e-18	3.873e-17	FOXA1
ENSG00000129521	-1.32	5.438e-08	1.584e-07	EGLN3
ENSG00000129534	-1.314	7.123e-18	3.713e-17	MIS18BP1
ENSG00000129646	1.15	3.335e-05	7.699e-05	QRICH2
ENSG00000129675	2.455	0.004359	0.007957	ARHGEF6
ENSG00000129680	-1.143	3.262e-09	1.039e-08	MAP7D3
ENSG00000129691	-1.065	3.035e-22	1.939e-21	ASH2L
ENSG00000129757	2.96	3.234e-10	1.104e-09	CDKN1C
ENSG00000129911	-1.415	1.271e-11	4.743e-11	KLF16
ENSG00000129946	1.486	0.01014	0.01757	SHC2
ENSG00000129993	-2.607	6.447e-11	2.303e-10	CBFA2T3
ENSG00000130021	-1.295	1.05e-21	6.576e-21	HDHD1
ENSG00000130023	-1.088	1.65e-11	6.117e-11	ERMARD
ENSG00000130032	4.092	0.0005686	0.00116	PRRG3
ENSG00000130052	1.935	0.01023	0.0177	STARD8
ENSG00000130066	3.962	0	0	SAT1
ENSG00000130176	1.93	0.02112	0.03467	CNN1
ENSG00000130177	-1.076	2.132e-25	1.58e-24	CDC16

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ENSG00000130182	3.512	0.003076	0.005738	ZSCAN10
ENSG00000130193	-2.772	2.547e-57	5.648e-56	THEM6
ENSG00000130203	4.103	5.954e-19	3.269e-18	APOE
ENSG00000130222	3.04	1.813e-19	1.02e-18	GADD45G
ENSG00000130287	4.55	4.058e-05	9.308e-05	NCAN
ENSG00000130294	2.66	0.003263	0.00606	KIF1A
ENSG00000130299	-2.628	3.487e-77	1.349e-75	GTPBP3
ENSG00000130300	4.16	0.0001056	0.000233	PLVAP
ENSG00000130305	-1.152	1.501e-09	4.898e-09	NSUN5
ENSG00000130309	-1.562	8.498e-53	1.649e-51	COLGALT1
ENSG00000130311	1.198	6.984e-11	2.487e-10	DDA1
ENSG00000130312	-2.57	1.35e-20	8.001e-20	MRPL34
ENSG00000130340	1.152	2.392e-42	3.435e-41	SNX9
ENSG00000130347	-2.806	9.496e-23	6.192e-22	RTN4IP1
ENSG00000130349	-3.101	9.131e-32	8.829e-31	C6orf203
ENSG00000130413	-1.285	1.271e-06	3.326e-06	STK33
ENSG00000130433	-1.567	7.334e-29	6.284e-28	CACNG6
ENSG00000130449	4.364	1.27e-168	2.666e-166	ZSWIM6
ENSG00000130475	-1.295	2.642e-15	1.207e-14	FCHO1
ENSG00000130489	-2.857	3.609e-23	2.4e-22	SCO2
ENSG00000130508	-1.375	6.607e-39	8.485e-38	PXDN
ENSG00000130511	-1.852	4.338e-31	4.05e-30	SSBP4
ENSG00000130513	2.853	1.472e-43	2.205e-42	GDF15
ENSG00000130517	-1.802	1.469e-23	9.956e-23	PGPEP1
ENSG00000130518	1.543	0.00197	0.00378	KIAA1683
ENSG00000130522	1.095	1.28e-25	9.59e-25	JUND
ENSG00000130529	-1.159	3.011e-14	1.305e-13	TRPM4
ENSG00000130544	1.565	9.043e-17	4.452e-16	ZNF557
ENSG00000130560	-1.804	5.684e-19	3.124e-18	UBAC1
ENSG00000130590	-2.023	2.922e-28	2.427e-27	SAMD10
ENSG00000130649	3.885	3.11e-10	1.062e-09	CYP2E1
ENSG00000130653	1.097	0.0254	0.0411	PNPLA7
ENSG00000130675	-2.448	8.175e-12	3.08e-11	MXN1
ENSG00000130684	1.194	8.257e-10	2.744e-09	ZNF337
ENSG00000130701	-3.793	2.145e-25	1.588e-24	RBBP8NL
ENSG00000130702	-1.871	5.817e-47	9.657e-46	LAMA5
ENSG00000130703	1.261	2.697e-44	4.116e-43	OSBPL2
ENSG00000130713	-1.41	4.55e-14	1.957e-13	EXOSC2
ENSG00000130723	-1.106	3.882e-54	7.785e-53	PRRC2B
ENSG00000130726	-1.506	3.275e-27	2.613e-26	TRIM28
ENSG00000130762	-2.683	1.921e-40	2.582e-39	ARHGEF16
ENSG00000130764	-1.822	2.714e-09	8.686e-09	LRRRC47
ENSG00000130766	4.86	1.731e-191	5.189e-189	SESN2
ENSG00000130783	2.753	9.566e-06	2.318e-05	CCDC62

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ENSG00000130813	-1.542	3.108e-18	1.651e-17	C19orf66
ENSG00000130816	-1.14	6.061e-25	4.381e-24	DNMT1
ENSG00000130822	6.5	1.551e-12	6.113e-12	PNCK
ENSG00000130856	1.12	8.828e-27	6.918e-26	ZNF236
ENSG00000130881	-1.521	9.954e-06	2.407e-05	LRP3
ENSG00000131013	1.139	1.896e-12	7.431e-12	PPIL4
ENSG00000131016	2.195	2.241e-74	8.09e-73	AKAP12
ENSG00000131018	3.924	1.428e-92	8.068e-91	SYNE1
ENSG00000131019	-1.464	0.0001216	0.0002661	ULBP3
ENSG00000131037	1.179	3.271e-17	1.647e-16	EPS8L1
ENSG00000131051	1.217	1.997e-59	4.794e-58	RBM39
ENSG00000131061	-1.372	2.645e-11	9.697e-11	ZNF341
ENSG00000131089	-1.406	9.573e-40	1.26e-38	ARHGEF9
ENSG00000131095	2.638	0.0146	0.02465	GFAP
ENSG00000131096	3.247	0.01871	0.03101	PYY
ENSG00000131100	1.07	1.083e-21	6.781e-21	ATP6V1E1
ENSG00000131116	-1.028	2.688e-09	8.606e-09	ZNF428
ENSG00000131149	-1.643	3.774e-32	3.709e-31	GSE1
ENSG00000131153	-1.693	1.965e-19	1.103e-18	GINS2
ENSG00000131187	-1.511	6.239e-09	1.947e-08	F12
ENSG00000131188	-1.24	2.018e-09	6.52e-09	PRR7
ENSG00000131236	1.037	9.006e-44	1.355e-42	CAP1
ENSG00000131242	-1.577	3.193e-32	3.145e-31	RAB11FIP4
ENSG00000131368	-1.238	1.008e-18	5.476e-18	MRPS25
ENSG00000131375	-1.246	3.15e-20	1.835e-19	CAPN7
ENSG00000131409	2.469	0.001517	0.002951	LRRC4B
ENSG00000131435	1.188	6.486e-05	0.0001459	PDLIM4
ENSG00000131437	-1.596	1.665e-38	2.101e-37	KIF3A
ENSG00000131446	-1.025	3.924e-06	9.825e-06	MGAT1
ENSG00000131462	-1.131	3.535e-12	1.361e-11	TUBG1
ENSG00000131471	3.897	1.47e-16	7.154e-16	AOC3
ENSG00000131475	-1.026	2.348e-20	1.377e-19	VPS25
ENSG00000131480	3.318	1.91e-33	1.969e-32	AOC2
ENSG00000131650	-2.274	1.045e-25	7.858e-25	KREMEN2
ENSG00000131669	-1.677	4.821e-42	6.863e-41	NINJ1
ENSG00000131697	-1.034	2.476e-13	1.025e-12	NPHP4
ENSG00000131711	2.39	1.409e-51	2.64e-50	MAP1B
ENSG00000131730	2.878	9.383e-20	5.352e-19	CKMT2
ENSG00000131737	2.529	5.564e-36	6.376e-35	KRT34
ENSG00000131746	-1.448	7.505e-16	3.525e-15	TNS4
ENSG00000131747	-3.801	0	0	TOP2A
ENSG00000131779	-4.876	1.778e-52	3.426e-51	PEX11B
ENSG00000131788	-2.746	5.627e-62	1.462e-60	PIAS3
ENSG00000131791	-1.321	4.501e-29	3.895e-28	PRKAB2

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ENSG00000131795	-1.076	3.587e-18	1.899e-17	RBM8A
ENSG00000131848	-1.306	7.834e-18	4.067e-17	ZSCAN5A
ENSG00000131849	-1.116	0.001146	0.002258	ZNF132
ENSG00000131871	1.323	1.181e-27	9.598e-27	VIMP
ENSG00000131873	-2.011	2.437e-48	4.165e-47	CHSY1
ENSG00000131931	1.38	8.013e-20	4.581e-19	THAP1
ENSG00000131941	-1.475	2.755e-28	2.292e-27	RHPN2
ENSG00000131943	-1.347	9.725e-18	5.038e-17	C19orf12
ENSG00000131944	-1.844	6.552e-09	2.04e-08	C19orf40
ENSG00000132002	5.146	0	0	DNAJB1
ENSG00000132003	3.021	2.2e-136	2.84e-134	ZSWIM4
ENSG00000132016	-2.513	4.77e-15	2.157e-14	C19orf57
ENSG00000132130	-2.851	1.098e-30	1.008e-29	LHX1
ENSG00000132142	-1.197	1.477e-30	1.348e-29	ACACA
ENSG00000132153	-2.073	1.818e-50	3.302e-49	DHX30
ENSG00000132182	-1.427	8.414e-41	1.144e-39	NUP210
ENSG00000132185	3.511	0.0003805	0.0007911	FCRLA
ENSG00000132196	1.319	3.824e-20	2.22e-19	HSD17B7
ENSG00000132199	-2.096	1.881e-25	1.398e-24	ENOSF1
ENSG00000132274	1.891	0.02596	0.04195	TRIM22
ENSG00000132305	-1.717	2.98e-91	1.629e-89	IMMT
ENSG00000132313	-2.422	2.757e-86	1.341e-84	MRPL35
ENSG00000132330	-1.247	1.059e-15	4.945e-15	SCLY
ENSG00000132361	-1.668	4.379e-83	1.94e-81	CLUH
ENSG00000132382	-1.3	3.68e-46	5.933e-45	MYBBP1A
ENSG00000132383	-1.262	1.122e-54	2.285e-53	RPA1
ENSG00000132386	-2.433	2.909e-05	6.746e-05	SERPINF1
ENSG00000132394	-1.956	7.544e-27	5.928e-26	EEFSEC
ENSG00000132405	-1.867	1.364e-30	1.248e-29	TBC1D14
ENSG00000132423	-1.406	9.43e-08	2.702e-07	COQ3
ENSG00000132429	1.182	1.101e-05	2.651e-05	POPDC3
ENSG00000132432	1.261	1.567e-32	1.564e-31	SEC61G
ENSG00000132434	-1.162	8.762e-37	1.035e-35	LANCL2
ENSG00000132436	-2.684	6.549e-108	4.952e-106	FIGNL1
ENSG00000132437	2.487	0.0008884	0.001771	DDC
ENSG00000132471	2.09	9.703e-42	1.368e-40	WBP2
ENSG00000132478	-1.652	2.972e-26	2.283e-25	UNK
ENSG00000132481	-3.681	4.999e-51	9.242e-50	TRIM47
ENSG00000132485	1.478	1.742e-33	1.8e-32	ZRANB2
ENSG00000132510	3.757	1.142e-73	4.027e-72	KDM6B
ENSG00000132570	-2.573	4.037e-17	2.026e-16	PCBD2
ENSG00000132591	-1.934	1.244e-51	2.336e-50	ERAL1
ENSG00000132600	-1.102	1.408e-23	9.559e-23	PRMT7
ENSG00000132623	-1.512	5.339e-31	4.965e-30	ANKEF1

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ENSG00000132635	-2.023	6.782e-31	6.293e-30	PCED1A
ENSG00000132640	-1.581	1.462e-26	1.136e-25	BTBD3
ENSG00000132646	-2.992	2.528e-155	4.514e-153	PCNA
ENSG00000132661	-2.066	2.018e-22	1.299e-21	NXT1
ENSG00000132669	-2.869	7e-71	2.291e-69	RIN2
ENSG00000132670	-2.311	3.513e-54	7.063e-53	PTPRA
ENSG00000132677	-1.438	0.0004744	0.0009757	RHBG
ENSG00000132681	2.98	0.01713	0.02858	ATP1A4
ENSG00000132688	-1.22	2.985e-06	7.547e-06	NES
ENSG00000132692	1.949	4.746e-25	3.449e-24	BCAN
ENSG00000132694	-1.808	4.389e-79	1.75e-77	ARHGEF11
ENSG00000132698	-1.032	1.575e-11	5.844e-11	RAB25
ENSG00000132740	1.862	3.263e-32	3.213e-31	IGHMBP2
ENSG00000132749	-2.009	1.245e-11	4.652e-11	MTL5
ENSG00000132763	-2.967	3.927e-31	3.678e-30	MMACHC
ENSG00000132768	-1.184	4.775e-29	4.125e-28	DPH2
ENSG00000132773	-1.729	2.849e-27	2.279e-26	TOE1
ENSG00000132781	-1.504	3.225e-12	1.246e-11	MUTYH
ENSG00000132793	-2.746	1.837e-11	6.796e-11	LPIN3
ENSG00000132819	-2.021	4.889e-32	4.787e-31	RBM38
ENSG00000132823	2.305	4.327e-96	2.613e-94	OSER1
ENSG00000132825	-3.072	1.098e-36	1.286e-35	PPP1R3D
ENSG00000132854	-3.313	7.702e-10	2.563e-09	KANK4
ENSG00000132855	2.126	0.01224	0.02092	ANGPTL3
ENSG00000132879	-1.395	1.454e-12	5.738e-12	FBXO44
ENSG00000132881	-1.474	0.001557	0.003024	RSG1
ENSG00000132906	-1.089	2.054e-05	4.831e-05	CASP9
ENSG00000132938	6.48	2.483e-20	1.455e-19	MTUS2
ENSG00000132952	1.794	2.37e-75	8.744e-74	USPL1
ENSG00000132970	-1.721	2.487e-06	6.324e-06	WASF3
ENSG00000133019	-3.282	0.002435	0.004609	CHRM3
ENSG00000133026	-1.242	8.33e-42	1.178e-40	MYH10
ENSG00000133056	-4.014	2.245e-181	5.625e-179	PIK3C2B
ENSG00000133059	-2.219	8.059e-49	1.406e-47	DSTYK
ENSG00000133069	-1.238	0.000682	0.001377	TMCC2
ENSG00000133083	1.83	1.453e-15	6.713e-15	DCLK1
ENSG00000133101	4.242	2.095e-09	6.76e-09	CCNA1
ENSG00000133107	-1.528	2.917e-10	9.987e-10	TRPC4
ENSG00000133110	2.863	0.0001178	0.0002583	POSTN
ENSG00000133111	-2.654	1.294e-17	6.648e-17	RFXAP
ENSG00000133112	1.077	1.095e-23	7.477e-23	TPT1
ENSG00000133119	-1.321	3.615e-34	3.872e-33	RFC3
ENSG00000133134	2.008	2.333e-05	5.462e-05	BEX2
ENSG00000133169	3.059	0.02355	0.03831	BEX1

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ENSG00000133243	-1.211	3.125e-23	2.088e-22	BTBD2
ENSG00000133250	-1.78	7.106e-10	2.369e-09	ZNF414
ENSG00000133302	-1.664	4.355e-35	4.822e-34	ANKRD32
ENSG00000133398	1.444	2.178e-34	2.361e-33	MED10
ENSG00000133460	-1.772	2.209e-17	1.122e-16	SLC2A11
ENSG00000133466	-4.134	1.639e-234	7.862e-232	C1QTNF6
ENSG00000133477	-2.659	0.0004241	0.0008773	FAM83F
ENSG00000133597	-2.453	2.555e-20	1.495e-19	ADCK2
ENSG00000133612	-1.796	5.44e-55	1.118e-53	AGAP3
ENSG00000133627	-1.313	9.564e-14	4.049e-13	ACTR3B
ENSG00000133639	1.035	4.986e-19	2.746e-18	BTG1
ENSG00000133641	-1.315	2.951e-19	1.642e-18	C12orf29
ENSG00000133657	1.366	9.993e-64	2.71e-62	ATP13A3
ENSG00000133678	-1.157	6.647e-21	4.004e-20	TMEM254
ENSG00000133703	-1.178	1.784e-27	1.435e-26	KRAS
ENSG00000133739	-1.416	2.185e-08	6.548e-08	LRRCC1
ENSG00000133773	1.199	3.996e-11	1.447e-10	CCDC59
ENSG00000133812	1.558	1.186e-45	1.884e-44	SBF2
ENSG00000133818	1.507	7.762e-60	1.883e-58	RRAS2
ENSG00000133863	-1.393	2.398e-18	1.281e-17	TEX15
ENSG00000133895	-2.797	1.777e-111	1.42e-109	MEN1
ENSG00000133997	1.73	5.683e-39	7.31e-38	MED6
ENSG00000134049	-1.079	3.536e-19	1.964e-18	IER3IP1
ENSG00000134057	-3.163	5.164e-91	2.787e-89	CCNB1
ENSG00000134138	-2.33	1.206e-33	1.254e-32	MEIS2
ENSG00000134152	1.742	4.369e-38	5.448e-37	KATNBL1
ENSG00000134183	1.191	0.0003197	0.0006703	GNAT2
ENSG00000134186	1.609	4.356e-31	4.065e-30	PRPF38B
ENSG00000134207	1.14	5.041e-05	0.0001147	SYT6
ENSG00000134215	-1.871	5.997e-17	2.98e-16	VAV3
ENSG00000134222	-4.679	1.601e-85	7.594e-84	PSRC1
ENSG00000134243	-1.431	1.192e-31	1.146e-30	SORT1
ENSG00000134245	1.059	4.155e-07	1.132e-06	WNT2B
ENSG00000134247	-2.117	7.231e-52	1.367e-50	PTGFRN
ENSG00000134248	-1.115	1.53e-06	3.968e-06	LAMTOR5
ENSG00000134250	-1.02	5.03e-35	5.566e-34	NOTCH2
ENSG00000134253	-1.822	5.531e-29	4.759e-28	TRIM45
ENSG00000134256	-1.06	4.717e-06	1.173e-05	CD101
ENSG00000134259	-2.388	1.828e-20	1.077e-19	NGF
ENSG00000134278	1.256	1.086e-26	8.468e-26	SPIRE1
ENSG00000134294	1.676	1.634e-135	2.093e-133	SLC38A2
ENSG00000134321	4.382	3.592e-05	8.27e-05	RSAD2
ENSG00000134369	-2.199	1.045e-96	6.376e-95	NAV1
ENSG00000134398	3.841	4.872e-05	0.0001109	ERN2

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ENSG00000134461	-1.995	1.449e-09	4.736e-09	ANKRD16
ENSG00000134470	-1.525	2.004e-06	5.141e-06	IL15RA
ENSG00000134489	-2.865	0.01639	0.02744	HRH4
ENSG00000134504	-1.463	1.842e-21	1.142e-20	KCTD1
ENSG00000134508	-1.814	3.353e-28	2.778e-27	CABLES1
ENSG00000134548	3.664	3.154e-06	7.965e-06	C12orf39
ENSG00000134569	-1.394	3.622e-06	9.098e-06	LRP4
ENSG00000134574	-1.256	1.567e-14	6.89e-14	DDB2
ENSG00000134575	-2.188	2.364e-40	3.159e-39	ACP2
ENSG00000134590	-1.674	1.482e-18	8.008e-18	FAM127A
ENSG00000134684	1.047	6.568e-37	7.803e-36	YARS
ENSG00000134690	-1.906	7.176e-76	2.689e-74	CDCA8
ENSG00000134716	-1.08	1.105e-08	3.379e-08	CYP2J2
ENSG00000134748	1.061	3.904e-15	1.772e-14	PRPF38A
ENSG00000134765	2.819	0.0001138	0.0002502	DSC1
ENSG00000134769	1.821	0.000646	0.001311	DTNA
ENSG00000134775	-1.221	2.819e-13	1.162e-12	FHOD3
ENSG00000134780	-1.71	4.669e-27	3.697e-26	DAGLA
ENSG00000134809	-1.136	1.849e-13	7.71e-13	TIMM10
ENSG00000134852	-1.167	7.451e-18	3.879e-17	CLOCK
ENSG00000134864	-1.217	0.002914	0.005448	GGACT
ENSG00000134874	-1.946	0.002573	0.004858	DZIP1
ENSG00000134884	-1.007	2.883e-31	2.719e-30	ARGLU1
ENSG00000134897	-3.059	7.433e-29	6.366e-28	BIVM
ENSG00000134901	-3.926	2.967e-31	2.795e-30	KDELC1
ENSG00000134954	1.331	6.64e-34	7.014e-33	ETS1
ENSG00000134962	1.541	0.00545	0.009824	KLB
ENSG00000135018	1.49	3.703e-74	1.328e-72	UBQLN1
ENSG00000135045	-2.633	2.113e-22	1.358e-21	C9orf40
ENSG00000135046	1.654	2.129e-120	2.153e-118	ANXA1
ENSG00000135074	-3.048	1.003e-57	2.248e-56	ADAM19
ENSG00000135077	3.327	0.006048	0.01083	HAVCR2
ENSG00000135083	-2.272	3.378e-10	1.151e-09	CCNJL
ENSG00000135093	1.262	1.492e-19	8.428e-19	USP30
ENSG00000135094	1.561	0.02214	0.03622	SDS
ENSG00000135114	-2.021	0.0001156	0.0002539	OASL
ENSG00000135119	-1.83	1.32e-09	4.325e-09	RNFT2
ENSG00000135124	-1.036	2.023e-12	7.912e-12	P2RX4
ENSG00000135127	-1.615	7.146e-21	4.296e-20	CCDC64
ENSG00000135148	-1.048	7.68e-18	3.995e-17	TRAFD1
ENSG00000135185	-1.936	5.247e-14	2.246e-13	TMEM243
ENSG00000135211	-3.121	1.111e-16	5.439e-16	TMEM60
ENSG00000135241	2.213	8.272e-100	5.32e-98	PNPLA8
ENSG00000135245	-4.563	1.172e-39	1.539e-38	HILPDA

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ENSG00000135248	2.116	0.005769	0.01036	FAM71F1
ENSG00000135269	2.291	7.139e-117	6.443e-115	TES
ENSG00000135272	-1.944	1.126e-51	2.124e-50	MDFIC
ENSG00000135314	-2.086	6.222e-12	2.363e-11	KHDC1
ENSG00000135318	-1.016	1.833e-17	9.346e-17	NT5E
ENSG00000135324	3.683	0.001563	0.003035	MRAP2
ENSG00000135334	1.347	1.002e-21	6.278e-21	AKIRIN2
ENSG00000135336	-1.103	2.354e-14	1.026e-13	ORC3
ENSG00000135346	3.77	4.765e-05	0.0001086	CGA
ENSG00000135362	-1.358	0.005392	0.009727	PRR5L
ENSG00000135365	-1.15	2.525e-07	7.002e-07	PHF21A
ENSG00000135372	-1.193	5.169e-33	5.269e-32	NAT10
ENSG00000135373	1.968	1.176e-103	8.261e-102	EHF
ENSG00000135374	-1.72	0.0004973	0.001021	ELF5
ENSG00000135414	-1.608	1.132e-10	3.98e-10	GDF11
ENSG00000135439	-3.671	0.0008282	0.001657	AGAP2
ENSG00000135451	-2.575	1.296e-78	5.155e-77	TROAP
ENSG00000135469	-2.394	3.967e-13	1.619e-12	COQ10A
ENSG00000135473	-1.418	7.357e-16	3.457e-15	PAN2
ENSG00000135476	-2.254	5.635e-64	1.543e-62	ESPL1
ENSG00000135503	-1.787	5.519e-32	5.389e-31	ACVR1B
ENSG00000135604	3.242	6.193e-05	0.0001397	STX11
ENSG00000135617	-1.58	6.598e-13	2.658e-12	PRADC1
ENSG00000135622	-2.006	1.834e-19	1.031e-18	SEMA4F
ENSG00000135631	-1.366	1.28e-19	7.254e-19	RAB11FIP5
ENSG00000135632	-1.472	1.097e-16	5.375e-16	SMYD5
ENSG00000135638	3.209	0.01902	0.03147	EMX1
ENSG00000135655	1.246	9.748e-23	6.352e-22	USP15
ENSG00000135686	-1.19	4.594e-11	1.657e-10	KLHL36
ENSG00000135723	-1.96	6.817e-52	1.292e-50	FHOD1
ENSG00000135736	-2.608	7.211e-16	3.395e-15	CCDC102A
ENSG00000135740	1.189	5.149e-12	1.965e-11	SLC9A5
ENSG00000135763	-1.833	4.105e-61	1.036e-59	URB2
ENSG00000135766	-1.26	4.434e-28	3.663e-27	EGLN1
ENSG00000135775	-2.823	3.305e-116	2.967e-114	COG2
ENSG00000135776	-2.485	2.277e-35	2.56e-34	ABCB10
ENSG00000135801	-1.548	2.847e-63	7.635e-62	TAF5L
ENSG00000135828	-1.512	1.798e-10	6.228e-10	RNASEL
ENSG00000135845	-2.735	6.382e-48	1.084e-46	PIGC
ENSG00000135870	1.788	1.253e-34	1.368e-33	RC3H1
ENSG00000135900	-1.104	3.826e-13	1.565e-12	MRPL44
ENSG00000135914	5.232	3.109e-37	3.747e-36	HTR2B
ENSG00000135917	-2.485	8.934e-09	2.752e-08	SLC19A3
ENSG00000135919	1.99	1.835e-84	8.531e-83	SERPINE2

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ENSG00000135924	1.113	3.038e-11	1.108e-10	DNAJB2
ENSG00000135925	-1.332	6.479e-05	0.0001458	WNT10A
ENSG00000135930	-1.353	2.556e-20	1.496e-19	EIF4E2
ENSG00000135931	-1.673	6.263e-27	4.933e-26	ARMC9
ENSG00000135966	-2.498	4.873e-76	1.83e-74	TGFBRAP1
ENSG00000135976	-2.493	3.739e-22	2.381e-21	ANKRD36
ENSG00000136010	-1.348	0.02199	0.03601	ALDH1L2
ENSG00000136014	-2.865	8.325e-14	3.532e-13	USP44
ENSG00000136026	-2.071	3.439e-62	9.021e-61	CKAP4
ENSG00000136048	-1.722	3.96e-12	1.522e-11	DRAM1
ENSG00000136098	-2.092	0.02522	0.04084	NEK3
ENSG00000136100	-1.083	6.679e-16	3.149e-15	VPS36
ENSG00000136108	-3.654	3.749e-119	3.659e-117	CKAP2
ENSG00000136111	-2.725	8.497e-44	1.279e-42	TBC1D4
ENSG00000136122	-1.814	9.992e-27	7.801e-26	BORA
ENSG00000136144	-1.387	8.371e-21	5.008e-20	RCBTB1
ENSG00000136152	1.018	1.425e-28	1.204e-27	COG3
ENSG00000136158	-1.057	2.142e-08	6.425e-08	SPRY2
ENSG00000136161	-2.38	2.34e-10	8.06e-10	RCBTB2
ENSG00000136167	1.407	2.007e-84	9.306e-83	LCP1
ENSG00000136169	-2.578	1.014e-23	6.942e-23	SETDB2
ENSG00000136193	-1.339	1.997e-46	3.245e-45	SCRN1
ENSG00000136197	-3.051	0.0001146	0.0002519	C7orf25
ENSG00000136205	-3.211	2.694e-253	1.507e-250	TNS3
ENSG00000136213	-1.68	3.313e-10	1.13e-09	CHST12
ENSG00000136237	-1.345	2.649e-25	1.949e-24	RAPGEF5
ENSG00000136243	-1.405	2.837e-23	1.899e-22	NUPL2
ENSG00000136244	2.384	1.733e-13	7.239e-13	IL6
ENSG00000136280	-1.455	1.266e-22	8.218e-22	CCM2
ENSG00000136319	-2.247	2.978e-32	2.942e-31	TTC5
ENSG00000136371	-1.931	1.44e-19	8.152e-19	MTHFS
ENSG00000136378	-1.128	0.02759	0.04435	ADAMTS7
ENSG00000136379	-2.254	1.295e-60	3.226e-59	ABHD17C
ENSG00000136383	-1.108	1.188e-05	2.853e-05	ALPK3
ENSG00000136436	1.655	1.615e-44	2.479e-43	CALCOCO2
ENSG00000136444	-3.582	4.833e-24	3.358e-23	RSAD1
ENSG00000136457	-4.021	2.931e-08	8.706e-08	CHAD
ENSG00000136463	-1.77	1.672e-25	1.247e-24	TACO1
ENSG00000136492	-1.234	2.044e-21	1.263e-20	BRIP1
ENSG00000136527	1.537	2.924e-62	7.682e-61	TRA2B
ENSG00000136535	5.514	2.107e-16	1.018e-15	TBR1
ENSG00000136603	1.17	3.58e-38	4.475e-37	SKIL
ENSG00000136630	-1.267	0.001966	0.003774	HLX
ENSG00000136631	-1.231	2.467e-25	1.819e-24	VPS45

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ENSG00000136636	-3.532	1.489e-185	3.968e-183	KCTD3
ENSG00000136653	-1.046	4.586e-07	1.246e-06	RASSF5
ENSG00000136688	2.306	0.0234	0.0381	IL36G
ENSG00000136689	-1.385	3.562e-07	9.774e-07	IL1RN
ENSG00000136696	5.048	1.375e-06	3.584e-06	IL36B
ENSG00000136710	-1.094	1.255e-10	4.401e-10	CCDC115
ENSG00000136717	-1.536	5.167e-36	5.924e-35	BIN1
ENSG00000136720	-2.355	3.182e-100	2.095e-98	HS6ST1
ENSG00000136738	1.321	3.402e-13	1.394e-12	STAM
ENSG00000136802	1.241	1.155e-28	9.822e-28	LRRC8A
ENSG00000136827	-1.041	6.12e-25	4.42e-24	TOR1A
ENSG00000136828	-1.412	1.148e-18	6.228e-18	RALGPS1
ENSG00000136848	-1.681	1.76e-17	8.982e-17	DAB2IP
ENSG00000136856	-1.595	2.959e-09	9.448e-09	SLC2A8
ENSG00000136866	1.621	2.776e-07	7.679e-07	ZFP37
ENSG00000136869	-1.16	4.645e-06	1.156e-05	TLR4
ENSG00000136874	-1.191	2.411e-12	9.385e-12	STX17
ENSG00000136881	3.196	0.01078	0.01859	BAAT
ENSG00000136888	1.506	7.256e-48	1.228e-46	ATP6V1G1
ENSG00000136895	-2.048	8.38e-11	2.966e-10	GARNL3
ENSG00000136932	1.198	5.399e-25	3.913e-24	C9orf156
ENSG00000136944	-1.617	0.000126	0.0002753	LMX1B
ENSG00000136960	6.279	5.008e-12	1.914e-11	ENPP2
ENSG00000136982	-1.59	2.682e-29	2.34e-28	DSCC1
ENSG00000136997	-2.311	1.918e-83	8.655e-82	MYC
ENSG00000137038	-1.055	0.0005971	0.001216	TMEM261
ENSG00000137040	-1.917	4.887e-29	4.215e-28	RANBP6
ENSG00000137055	1.036	7.183e-22	4.514e-21	PLAA
ENSG00000137090	3.231	0.01545	0.02598	DMRT1
ENSG00000137094	3.515	2.97e-30	2.675e-29	DNAJB5
ENSG00000137103	-1.222	0.01994	0.03289	TMEM8B
ENSG00000137124	-3.679	9.861e-82	4.201e-80	ALDH1B1
ENSG00000137135	-3.103	2.596e-21	1.593e-20	ARHGEF39
ENSG00000137177	-1.447	1.122e-24	8.014e-24	KIF13A
ENSG00000137200	-1.463	3.634e-19	2.016e-18	CMTR1
ENSG00000137203	-1.626	2.777e-13	1.146e-12	TFAP2A
ENSG00000137218	-1.689	2.397e-06	6.105e-06	FRS3
ENSG00000137269	-1.857	1.677e-30	1.527e-29	LRRC1
ENSG00000137270	3.237	2.239e-09	7.204e-09	GCM1
ENSG00000137273	-2.687	1.498e-32	1.497e-31	FOXF2
ENSG00000137275	-3.477	9.551e-104	6.765e-102	RIPK1
ENSG00000137310	-3.129	2.991e-34	3.216e-33	TCF19
ENSG00000137331	1.534	5.12e-52	9.733e-51	IER3
ENSG00000137337	-1.008	2.292e-06	5.846e-06	MDC1

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ENSG00000137338	-2.52	4.661e-12	1.786e-11	PGBD1
ENSG00000137411	-1.048	1.403e-06	3.653e-06	VAR52
ENSG00000137449	1.553	7.993e-39	1.023e-37	CPEB2
ENSG00000137460	-1.409	3.444e-14	1.487e-13	FHDC1
ENSG00000137486	-3.108	3.227e-44	4.912e-43	ARRB1
ENSG00000137492	-1.08	1.914e-29	1.681e-28	PRKRIR
ENSG00000137497	-1.2	3.798e-55	7.822e-54	NUMA1
ENSG00000137501	-2.76	8.158e-61	2.047e-59	SYTL2
ENSG00000137507	2.263	0.01098	0.0189	LRRC32
ENSG00000137513	-1.455	7.078e-19	3.87e-18	NARS2
ENSG00000137547	-2.101	1.192e-38	1.518e-37	MRPL15
ENSG00000137571	3.661	0.005432	0.009794	SLCO5A1
ENSG00000137574	-1.29	6.716e-19	3.677e-18	TGS1
ENSG00000137575	1.377	2.426e-34	2.621e-33	SDCBP
ENSG00000137601	-1.267	2.11e-18	1.13e-17	NEK1
ENSG00000137628	-1.52	2.098e-21	1.296e-20	DDX60
ENSG00000137656	-1.417	4.077e-16	1.946e-15	BUD13
ENSG00000137700	-1.256	7.752e-20	4.435e-19	SLC37A4
ENSG00000137745	2.816	1.547e-17	7.91e-17	MMP13
ENSG00000137764	-1.192	2.158e-10	7.446e-10	MAP2K5
ENSG00000137801	1.144	7.417e-41	1.011e-39	THBS1
ENSG00000137804	-1.982	1.912e-28	1.604e-27	NUSAP1
ENSG00000137807	-1.395	6.934e-19	3.794e-18	KIF23
ENSG00000137809	2.436	0.0009713	0.00193	ITGA11
ENSG00000137812	-1.967	5.08e-43	7.434e-42	CASC5
ENSG00000137825	-3.657	0.000445	0.0009177	ITPKA
ENSG00000137831	-1.914	1.274e-38	1.617e-37	UACA
ENSG00000137834	-2.573	9.106e-18	4.72e-17	SMAD6
ENSG00000137841	-5.814	9.276e-11	3.274e-10	PLCB2
ENSG00000137843	-4.833	8.131e-89	4.174e-87	PAK6
ENSG00000137857	-1.967	0.01241	0.0212	DUOX1
ENSG00000137876	2.328	3.377e-116	3.015e-114	RSL24D1
ENSG00000137877	1.259	0.0002784	0.0005874	SPTBN5
ENSG00000137936	-1.466	2.477e-59	5.906e-58	BCAR3
ENSG00000137960	2.247	0.03096	0.04933	GIPC2
ENSG00000137975	2.076	0.02207	0.03612	CLCA2
ENSG00000138002	-1.54	1.671e-21	1.039e-20	IFT172
ENSG00000138030	-2.55	1.337e-15	6.204e-15	KHK
ENSG00000138031	-1.181	2.906e-19	1.618e-18	ADCY3
ENSG00000138035	-1.001	1.024e-28	8.718e-28	PNPT1
ENSG00000138061	-2.776	1.767e-160	3.37e-158	CYP1B1
ENSG00000138069	1.069	2.115e-37	2.564e-36	RAB1A
ENSG00000138073	-1.327	3.042e-25	2.232e-24	PREB
ENSG00000138074	-1.953	3.161e-23	2.111e-22	SLC5A6

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ENSG00000138081	2.03	8.858e-62	2.277e-60	FBXO11
ENSG00000138083	-2.202	0.00217	0.00414	SIX3
ENSG00000138100	1.867	3.184e-12	1.231e-11	TRIM54
ENSG00000138109	2.914	0.009505	0.01653	CYP2C9
ENSG00000138111	-2.057	1.856e-27	1.491e-26	TMEM180
ENSG00000138131	-1.381	0.001254	0.002461	LOXL4
ENSG00000138134	-1.587	4.071e-11	1.472e-10	STAMBPL1
ENSG00000138160	-3.003	3.321e-118	3.132e-116	KIF11
ENSG00000138166	2.269	4.907e-74	1.749e-72	DUSP5
ENSG00000138172	-3.377	3.895e-83	1.739e-81	CALHM2
ENSG00000138180	-1.502	1.121e-16	5.486e-16	CEP55
ENSG00000138182	-1.828	6.188e-25	4.465e-24	KIF20B
ENSG00000138185	-2.736	1.117e-64	3.14e-63	ENTPD1
ENSG00000138193	-1.958	2.16e-53	4.256e-52	PLCE1
ENSG00000138231	-1.446	6.023e-36	6.883e-35	DBR1
ENSG00000138271	-2.793	7.77e-33	7.843e-32	GPR87
ENSG00000138311	-2.069	2.45e-19	1.369e-18	ZNF365
ENSG00000138316	-2.858	4.275e-15	1.937e-14	ADAMTS14
ENSG00000138336	-3.531	5.679e-10	1.904e-09	TET1
ENSG00000138346	-1.729	5.593e-42	7.942e-41	DNA2
ENSG00000138375	-1.362	3.596e-20	2.091e-19	SMARCAL1
ENSG00000138376	-3.263	5.831e-127	6.525e-125	BARD1
ENSG00000138380	-1.883	5.462e-10	1.833e-09	CARF
ENSG00000138399	-1.574	4.534e-40	6.026e-39	FASTKD1
ENSG00000138433	1.783	5.844e-17	2.906e-16	CIR1
ENSG00000138439	-1.8	6.5e-14	2.771e-13	FAM117B
ENSG00000138442	-1.306	1.755e-29	1.542e-28	WDR12
ENSG00000138449	-6.488	5.591e-32	5.453e-31	SLC40A1
ENSG00000138459	-2.366	6.323e-58	1.423e-56	SLC35A5
ENSG00000138496	-1.879	1.325e-36	1.548e-35	PARP9
ENSG00000138593	-1.033	1.208e-12	4.793e-12	SECISBP2L
ENSG00000138604	-2.544	8.94e-57	1.939e-55	GLCE
ENSG00000138613	-1.719	1.854e-08	5.58e-08	APH1B
ENSG00000138614	-1.1	3.275e-13	1.343e-12	VWA9
ENSG00000138617	-2.571	2.219e-22	1.425e-21	PARP16
ENSG00000138639	-2.041	6.642e-05	0.0001493	ARHGAP24
ENSG00000138642	-1.352	1.19e-12	4.724e-12	HERC6
ENSG00000138646	-1.693	1.347e-09	4.412e-09	HERC5
ENSG00000138670	3.628	0.0001499	0.000325	RASGEF1B
ENSG00000138678	1.525	1.849e-38	2.33e-37	AGPAT9
ENSG00000138688	-1.073	5.582e-32	5.448e-31	KIAA1109
ENSG00000138735	-1.349	2.017e-09	6.519e-09	PDE5A
ENSG00000138744	-1.172	4.105e-05	9.41e-05	NAAA
ENSG00000138756	1.418	7.895e-09	2.448e-08	BMP2K

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ENSG00000138764	1.702	1.843e-36	2.139e-35	CCNG2
ENSG00000138767	-1.055	1.418e-15	6.561e-15	CNOT6L
ENSG00000138771	-1.354	3.194e-48	5.449e-47	SHROOM3
ENSG00000138778	-1.693	2.554e-16	1.23e-15	CENPE
ENSG00000138780	-1.094	2.832e-09	9.059e-09	GSTCD
ENSG00000138794	-1.237	1.69e-12	6.638e-12	CASP6
ENSG00000138795	-1.476	0.002021	0.003873	LEF1
ENSG00000138798	-1.068	0.002949	0.005512	EGF
ENSG00000138829	2.475	0.001086	0.002147	FBN2
ENSG00000138834	-1.115	3.698e-35	4.124e-34	MAPK8IP3
ENSG00000138835	-4.405	2.702e-73	9.412e-72	RGS3
ENSG00000138892	3.031	0.02445	0.03966	TTLL8
ENSG00000138942	1.292	2.147e-11	7.918e-11	RNF185
ENSG00000139044	-1.343	7.53e-08	2.171e-07	B4GALNT3
ENSG00000139112	2.474	2.123e-68	6.563e-67	GABARAPL1
ENSG00000139133	-1.483	3.683e-13	1.507e-12	ALG10
ENSG00000139155	2.506	0.02515	0.04073	SLCO1C1
ENSG00000139160	1.851	2.282e-15	1.046e-14	METTL20
ENSG00000139174	-1.779	5.611e-16	2.654e-15	PRICKLE1
ENSG00000139178	-1.612	5.967e-19	3.276e-18	C1RL
ENSG00000139194	-1.371	6.866e-06	1.684e-05	RBP5
ENSG00000139197	-1.292	6.228e-14	2.659e-13	PEX5
ENSG00000139200	3.446	9.304e-15	4.142e-14	PIANP
ENSG00000139209	3.12	0.002434	0.004607	SLC38A4
ENSG00000139211	-2.107	9.767e-43	1.417e-41	AMIGO2
ENSG00000139219	5.416	3.823e-15	1.737e-14	COL2A1
ENSG00000139263	-3.435	2.351e-36	2.723e-35	LRIG3
ENSG00000139266	-1.229	3.479e-08	1.028e-07	9-Mar
ENSG00000139269	3.296	5.454e-05	0.0001237	INHBE
ENSG00000139278	2.129	1.447e-29	1.275e-28	GLIPR1
ENSG00000139289	-1.136	5.65e-07	1.522e-06	PHLDA1
ENSG00000139291	-1.909	4.955e-13	2.012e-12	TMEM19
ENSG00000139292	3.593	0.00591	0.01059	LGR5
ENSG00000139370	-1.942	4.036e-37	4.843e-36	SLC15A4
ENSG00000139405	-1.93	1.589e-37	1.937e-36	C12orf52
ENSG00000139410	-1.474	0.0002025	0.0004332	SDSL
ENSG00000139436	-1.042	1.226e-10	4.301e-10	GIT2
ENSG00000139437	-3.56	2.976e-74	1.07e-72	TCHP
ENSG00000139514	1.589	2.129e-93	1.228e-91	SLC7A1
ENSG00000139531	-3.416	6.229e-34	6.589e-33	SUOX
ENSG00000139546	-1.827	8.446e-08	2.427e-07	TARBP2
ENSG00000139547	-2.512	0.007946	0.01399	RDH16
ENSG00000139618	-1.563	2.724e-26	2.095e-25	BRCA2
ENSG00000139620	-1.165	1.875e-11	6.934e-11	KANSL2

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ENSG00000139629	-3.423	3.547e-128	4.079e-126	GALNT6
ENSG00000139645	-1.823	8.627e-89	4.415e-87	ANKRD52
ENSG00000139651	-1.373	2.031e-15	9.343e-15	ZNF740
ENSG00000139675	-1.315	5.173e-19	2.847e-18	HNRNPA1L2
ENSG00000139719	-1.457	6.34e-26	4.809e-25	VPS33A
ENSG00000139722	1.469	7.275e-49	1.271e-47	VPS37B
ENSG00000139725	1.109	3.135e-07	8.634e-07	RHOF
ENSG00000139737	-2.178	3.474e-05	8.007e-05	SLAIN1
ENSG00000139767	3.098	0.01278	0.02178	SRRM4
ENSG00000139826	-1.439	5.708e-27	4.507e-26	ABHD13
ENSG00000139832	-3.873	4.877e-62	1.269e-60	RAB20
ENSG00000139835	-1.157	2.291e-14	9.987e-14	GRTP1
ENSG00000139890	2.128	1.89e-07	5.292e-07	REM2
ENSG00000139899	-1.326	0.009358	0.01629	CBLN3
ENSG00000139910	-2.163	8.269e-10	2.747e-09	NOVA1
ENSG00000139988	2.206	0.003442	0.00637	RDH12
ENSG00000139990	-1.101	1.045e-13	4.414e-13	DCAF5
ENSG00000139998	-1.33	3.394e-59	8.001e-58	RAB15
ENSG00000140006	-2.489	1.055e-57	2.361e-56	WDR89
ENSG00000140009	-1.734	0.002104	0.004022	ESR2
ENSG00000140022	1.561	1.762e-13	7.354e-13	STON2
ENSG00000140104	-3.407	1.649e-33	1.706e-32	C14orf79
ENSG00000140105	1.254	2.284e-31	2.17e-30	WARS
ENSG00000140153	1.021	1.289e-23	8.777e-23	WDR20
ENSG00000140280	-2.149	4.642e-13	1.887e-12	LYSMD2
ENSG00000140299	1.286	2.05e-38	2.578e-37	BNIP2
ENSG00000140323	-3.209	4.671e-05	0.0001066	DISP2
ENSG00000140326	-2.101	4.189e-26	3.201e-25	CDAN1
ENSG00000140368	1.744	0.001592	0.00309	PSTPIP1
ENSG00000140379	4.103	0.0002245	0.0004785	BCL2A1
ENSG00000140382	-1.409	2.331e-24	1.642e-23	HMG20A
ENSG00000140396	-1.568	1.727e-26	1.337e-25	NCOA2
ENSG00000140398	-1.007	0.0003928	0.0008156	NEIL1
ENSG00000140406	-1.587	1.554e-17	7.944e-17	MESDC1
ENSG00000140450	1.74	3.414e-33	3.499e-32	ARRDC4
ENSG00000140451	-6.459	4.314e-40	5.743e-39	PIF1
ENSG00000140464	-1.347	3.75e-09	1.189e-08	PML
ENSG00000140474	-1.612	4.595e-16	2.186e-15	ULK3
ENSG00000140478	5.166	1.941e-07	5.431e-07	GOLGA6D
ENSG00000140488	4.486	0.0005725	0.001168	CELF6
ENSG00000140511	1.006	0.01556	0.02615	HAPLN3
ENSG00000140519	1.573	5.69e-07	1.532e-06	RHCG
ENSG00000140525	-1.077	3.317e-20	1.931e-19	FANCI
ENSG00000140534	-1.615	1.042e-45	1.657e-44	TICRR

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ENSG00000140538	3.166	0.02381	0.03869	NTRK3
ENSG00000140548	-1.837	4.336e-31	4.05e-30	ZNF710
ENSG00000140557	4.743	6.071e-06	1.496e-05	ST8SIA2
ENSG00000140563	-3.81	0.0003535	0.0007379	MCTP2
ENSG00000140577	-1.426	3.2e-34	3.436e-33	CRTC3
ENSG00000140598	-1.018	1.597e-24	1.133e-23	EFTUD1
ENSG00000140600	2.093	0.01424	0.02409	SH3GL3
ENSG00000140650	1.205	1.395e-33	1.449e-32	PMM2
ENSG00000140678	2.831	7.983e-06	1.947e-05	ITGAX
ENSG00000140682	2.163	0.02426	0.03938	TGFB111
ENSG00000140694	-1.158	1.727e-19	9.732e-19	PARN
ENSG00000140749	1.667	0.003222	0.005991	IGSF6
ENSG00000140798	4.168	0.000248	0.0005257	ABCC12
ENSG00000140832	-1.756	8.201e-49	1.43e-47	MARVELD3
ENSG00000140835	-4.934	8.986e-07	2.383e-06	CHST4
ENSG00000140853	-1.191	2.368e-12	9.228e-12	NLRC5
ENSG00000140854	-1.109	5.441e-14	2.329e-13	KATNB1
ENSG00000140873	4.388	3.467e-05	7.993e-05	ADAMTS18
ENSG00000140876	-1.714	0.01564	0.02628	NUDT7
ENSG00000140941	3.892	0	0	MAP1LC3B
ENSG00000140943	-1.002	7.242e-21	4.351e-20	MBTPS1
ENSG00000140950	-1.528	2.182e-12	8.514e-12	TLDC1
ENSG00000140961	2.575	1.112e-113	9.424e-112	OSGIN1
ENSG00000140995	-1.499	1.019e-14	4.529e-14	DEF8
ENSG00000141068	-1.265	2.124e-12	8.292e-12	KSR1
ENSG00000141127	-1.199	8.883e-15	3.965e-14	PRPSAP2
ENSG00000141140	-1.032	4.881e-22	3.091e-21	MYO19
ENSG00000141179	-1.271	1.146e-25	8.602e-25	PCTP
ENSG00000141219	-1.513	2.27e-21	1.399e-20	C17orf80
ENSG00000141258	-1.481	2.05e-41	2.86e-40	SGSM2
ENSG00000141295	-1.402	1.192e-07	3.395e-07	SCRN2
ENSG00000141337	-1.539	8.459e-09	2.615e-08	ARSG
ENSG00000141380	-1.298	6.806e-12	2.578e-11	SS18
ENSG00000141385	-1.486	6.505e-45	1.007e-43	AFG3L2
ENSG00000141401	-1.15	2.814e-13	1.16e-12	IMPA2
ENSG00000141428	1.274	6.86e-18	3.577e-17	C18orf21
ENSG00000141441	-1.502	1.991e-13	8.284e-13	GAREM
ENSG00000141449	-1.732	2.998e-24	2.101e-23	GREB1L
ENSG00000141456	-1.529	2.7e-40	3.606e-39	PELP1
ENSG00000141458	2.387	4.63e-163	8.934e-161	NPC1
ENSG00000141485	2.921	1.124e-06	2.955e-06	SLC13A5
ENSG00000141499	-1.19	3.217e-13	1.32e-12	WRAP53
ENSG00000141503	-2.216	3.134e-104	2.229e-102	MINK1
ENSG00000141505	3.082	6.353e-21	3.83e-20	ASGR1

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ENSG00000141510	-1.506	4.391e-71	1.445e-69	TP53
ENSG00000141522	-1.338	3.917e-59	9.195e-58	ARHGDIA
ENSG00000141526	-1.738	3.896e-14	1.678e-13	SLC16A3
ENSG00000141527	-1.556	1.582e-10	5.502e-10	CARD14
ENSG00000141540	-2.088	0.0005523	0.001128	TTYH2
ENSG00000141542	-1.348	4.084e-07	1.113e-06	RAB40B
ENSG00000141556	-1.232	2.676e-22	1.715e-21	TBCD
ENSG00000141560	-2.239	2.317e-24	1.633e-23	FN3KRP
ENSG00000141569	-3.149	3.197e-67	9.633e-66	TRIM65
ENSG00000141570	-2.154	1.482e-17	7.588e-17	CBX8
ENSG00000141574	-1.102	5.964e-07	1.603e-06	SECTM1
ENSG00000141577	-2.383	1.498e-39	1.959e-38	AZI1
ENSG00000141579	-1.952	9.388e-06	2.276e-05	ZNF750
ENSG00000141622	-2.496	2.197e-17	1.116e-16	RNF165
ENSG00000141642	-3.619	1.554e-25	1.161e-24	ELAC1
ENSG00000141644	1.785	4.887e-58	1.107e-56	MBD1
ENSG00000141655	-1.256	2.972e-17	1.501e-16	TNFRSF11A
ENSG00000141664	1.055	8.36e-20	4.778e-19	ZCCHC2
ENSG00000141682	3.211	8.176e-109	6.267e-107	PMAIP1
ENSG00000141696	-3.143	5.866e-106	4.263e-104	LEPREL4
ENSG00000141720	-1.815	1.92e-28	1.61e-27	PIP4K2B
ENSG00000141736	-2.797	1.163e-104	8.345e-103	ERBB2
ENSG00000141753	-1.447	1.257e-17	6.465e-17	IGFBP4
ENSG00000141837	-1.924	0.005808	0.01042	CACNA1A
ENSG00000141854	-3.659	1.711e-10	5.935e-10	hsa-mir-1199
ENSG00000141858	-1.845	5.592e-25	4.048e-24	SAMD1
ENSG00000141867	1.755	1.097e-16	5.375e-16	BRD4
ENSG00000141905	-2.064	3.053e-31	2.872e-30	NFIC
ENSG00000141956	-1.491	6.101e-23	4.006e-22	PRDM15
ENSG00000142046	-1.193	0.0006895	0.001392	TMEM91
ENSG00000142065	-2.149	2.449e-10	8.421e-10	ZFP14
ENSG00000142082	-2.134	1.944e-31	1.854e-30	SIRT3
ENSG00000142149	-2.916	1.823e-06	4.696e-06	HUNK
ENSG00000142178	1.362	1.313e-23	8.93e-23	SIK1
ENSG00000142182	2.947	0.001872	0.003602	DNMT3L
ENSG00000142188	-1.641	1.884e-24	1.334e-23	TMEM50B
ENSG00000142252	-3.131	4.051e-37	4.857e-36	GEMIN7
ENSG00000142327	-1.506	1.058e-31	1.021e-30	RNPEPL1
ENSG00000142405	2.986	0.0115	0.01974	NLRP12
ENSG00000142408	-1.48	1.024e-16	5.021e-16	CACNG8
ENSG00000142409	-1.05	2.802e-15	1.28e-14	ZNF787
ENSG00000142444	-1.166	1.45e-05	3.456e-05	C19orf52
ENSG00000142459	-1.384	7.214e-13	2.899e-12	EVI5L
ENSG00000142511	3.163	0.004894	0.008871	GPR32

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ENSG00000142513	2.977	1.624e-06	4.203e-06	ACPT
ENSG00000142549	-1.051	0.006614	0.01178	IGLON5
ENSG00000142611	4.191	1.667e-11	6.18e-11	PRDM16
ENSG00000142619	-1.376	1.221e-06	3.199e-06	PADI3
ENSG00000142621	1.023	1.584e-05	3.761e-05	FHAD1
ENSG00000142623	-1.246	9.755e-09	2.999e-08	PADI1
ENSG00000142632	-3.773	1.215e-46	1.996e-45	ARHGEF19
ENSG00000142655	-1.358	3.511e-17	1.767e-16	PEX14
ENSG00000142661	3.057	0.02362	0.03841	MYOM3
ENSG00000142677	-2.648	3.825e-06	9.586e-06	IL22RA1
ENSG00000142686	-3.088	2.836e-14	1.232e-13	C1orf216
ENSG00000142687	-1.257	1.378e-35	1.56e-34	KIAA0319L
ENSG00000142694	-1.189	0.01235	0.0211	EVA1B
ENSG00000142733	-2.699	2.246e-41	3.129e-40	MAP3K6
ENSG00000142765	-1.205	0.003262	0.006058	SYTL1
ENSG00000142794	-1.092	2.199e-20	1.291e-19	NBPF3
ENSG00000142798	-1.263	9.232e-42	1.302e-40	HSPG2
ENSG00000142945	-2.87	1.133e-82	4.98e-81	KIF2C
ENSG00000142959	2.654	0.0002577	0.0005451	BEST4
ENSG00000143061	-2.851	1.458e-151	2.431e-149	IGSF3
ENSG00000143079	1.143	1.261e-15	5.859e-15	CTTNBP2NL
ENSG00000143107	2.874	0.01563	0.02626	FNDC7
ENSG00000143119	4.311	1.562e-12	6.155e-12	CD53
ENSG00000143126	-2.051	4.219e-39	5.439e-38	CELSR2
ENSG00000143140	-4.901	9.567e-84	4.388e-82	GJA5
ENSG00000143147	-2.548	3.911e-11	1.417e-10	GPR161
ENSG00000143149	-1.398	1.069e-23	7.31e-23	ALDH9A1
ENSG00000143157	-3.652	8.054e-200	2.939e-197	POGK
ENSG00000143178	-1.445	5.353e-07	1.445e-06	TBX19
ENSG00000143179	-1.443	1.335e-38	1.691e-37	UCK2
ENSG00000143217	-1.147	1.644e-07	4.627e-07	PVRL4
ENSG00000143228	-2.258	4.039e-43	5.953e-42	NUF2
ENSG00000143256	1.16	9.325e-18	4.833e-17	PFDN2
ENSG00000143258	-1.194	1.133e-19	6.44e-19	USP21
ENSG00000143303	-1.477	1.531e-10	5.334e-10	RRNAD1
ENSG00000143315	-1.814	2.832e-31	2.675e-30	PIGM
ENSG00000143318	2.057	0.02092	0.03436	CASQ1
ENSG00000143322	3.301	0	0	ABL2
ENSG00000143355	-2.696	0.003185	0.005927	LHX9
ENSG00000143363	-1.638	4.499e-34	4.779e-33	PRUNE
ENSG00000143367	1.399	3.814e-52	7.276e-51	TUFT1
ENSG00000143374	-2.854	6.224e-70	1.998e-68	TARS2
ENSG00000143375	-4.212	4.457e-169	9.47e-167	CGN
ENSG00000143376	-1.114	2.281e-32	2.263e-31	SNX27

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ENSG00000143398	1.148	3.154e-46	5.101e-45	PIP5K1A
ENSG00000143401	-1.382	3.917e-53	7.646e-52	ANP32E
ENSG00000143409	-2.783	3.575e-24	2.495e-23	FAM63A
ENSG00000143443	-1.425	0.001348	0.002637	C1orf56
ENSG00000143457	-1.502	8.451e-34	8.866e-33	GOLPH3L
ENSG00000143466	-1.349	3.486e-12	1.342e-11	IKBKE
ENSG00000143476	-2.303	3.182e-91	1.734e-89	DTL
ENSG00000143493	-1.223	6.184e-32	6.01e-31	INTS7
ENSG00000143499	-1.006	3.77e-09	1.195e-08	SMYD2
ENSG00000143502	1.514	1.304e-07	3.703e-07	SUSD4
ENSG00000143507	1.407	1.414e-15	6.548e-15	DUSP10
ENSG00000143515	2.642	2.057e-05	4.836e-05	ATP8B2
ENSG00000143553	-1.157	2.093e-16	1.012e-15	SNAPIN
ENSG00000143578	-1.165	2.844e-08	8.459e-08	CREB3L4
ENSG00000143590	-2.157	1.524e-08	4.612e-08	EFNA3
ENSG00000143603	3.189	0.00114	0.002248	KCNN3
ENSG00000143622	2.228	1.86e-79	7.434e-78	RIT1
ENSG00000143627	3.474	0.002904	0.005431	PKLR
ENSG00000143630	-2.925	5.846e-32	5.688e-31	HCN3
ENSG00000143631	1.792	0.001805	0.003479	FLG
ENSG00000143632	2.969	8.135e-05	0.0001812	ACTA1
ENSG00000143643	-1.374	4.027e-31	3.77e-30	TTC13
ENSG00000143674	-1.702	1.768e-38	2.229e-37	MLK4
ENSG00000143702	-1.578	1.03e-26	8.04e-26	CEP170
ENSG00000143740	-1.803	9.414e-36	1.07e-34	SNAP47
ENSG00000143751	2.014	3.348e-100	2.195e-98	SDE2
ENSG00000143753	-2.002	9.588e-50	1.712e-48	DEGS1
ENSG00000143761	1.007	1.916e-45	3.028e-44	ARF1
ENSG00000143772	-3.078	1.398e-73	4.921e-72	ITPKB
ENSG00000143776	1.042	5.452e-22	3.444e-21	CDC42BPA
ENSG00000143786	1.157	0.002541	0.004799	CNIH3
ENSG00000143793	-1.819	7.604e-20	4.355e-19	C1orf35
ENSG00000143799	-1.046	3.077e-31	2.892e-30	PARP1
ENSG00000143801	-2.442	3.636e-27	2.894e-26	PSEN2
ENSG00000143811	-1.086	1.401e-14	6.168e-14	PYCR2
ENSG00000143816	-2.618	9.764e-24	6.695e-23	WNT9A
ENSG00000143842	-2.588	6.503e-80	2.656e-78	SOX13
ENSG00000143858	-1.166	0.01625	0.02722	SYT2
ENSG00000143870	1.035	1.643e-41	2.3e-40	PDIA6
ENSG00000143882	1.031	0.000148	0.0003209	ATP6V1C2
ENSG00000143942	-2.119	4.721e-28	3.898e-27	CHAC2
ENSG00000144026	-2.332	1.642e-31	1.572e-30	ZNF514
ENSG00000144040	-1.201	1.262e-09	4.148e-09	SFXN5
ENSG00000144043	-1.001	8.686e-28	7.095e-27	TEX261

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ENSG00000144045	1.789	0.0007881	0.00158	DQX1
ENSG00000144115	-1.865	8.862e-19	4.827e-18	THNSL2
ENSG00000144120	-4.124	2.515e-59	5.989e-58	TMEM177
ENSG00000144130	1.706	3.412e-06	8.591e-06	NT5DC4
ENSG00000144136	1.737	9.311e-45	1.438e-43	SLC20A1
ENSG00000144182	-2.138	5.1e-18	2.681e-17	LIPT1
ENSG00000144191	3.5	0.003117	0.005809	CNGA3
ENSG00000144218	4.802	1.739e-06	4.492e-06	AFF3
ENSG00000144224	1.036	6.243e-39	8.024e-38	UBXN4
ENSG00000144230	3.344	8.926e-06	2.168e-05	GPR17
ENSG00000144231	-2.233	9.546e-61	2.384e-59	POLR2D
ENSG00000144283	-1.3	2.22e-21	1.368e-20	PKP4
ENSG00000144306	-1.497	1.032e-23	7.068e-23	SCRN3
ENSG00000144320	-1.145	5.781e-12	2.201e-11	KIAA1715
ENSG00000144331	-1.34	0.01205	0.02062	ZNF385B
ENSG00000144354	-3.055	5.364e-206	2.094e-203	CDCA7
ENSG00000144362	-2.481	3.53e-10	1.201e-09	PHOSPHO2
ENSG00000144401	-1.15	1.437e-09	4.699e-09	METTL21A
ENSG00000144455	-1.12	4.979e-09	1.566e-08	SUMF1
ENSG00000144488	-1.735	0.001099	0.002171	ESPNL
ENSG00000144504	-1.969	3.294e-42	4.714e-41	ANKMY1
ENSG00000144524	-1.11	2.054e-23	1.385e-22	COPS7B
ENSG00000144550	4.145	0.0001418	0.000308	CPNE9
ENSG00000144554	-1.052	3.734e-18	1.975e-17	FANCD2
ENSG00000144559	-3.003	1.811e-20	1.068e-19	TAMM41
ENSG00000144566	1.253	5.058e-27	3.996e-26	RAB5A
ENSG00000144579	-2.436	9.665e-41	1.312e-39	CTDSP1
ENSG00000144580	-1.475	5.464e-42	7.773e-41	RQCD1
ENSG00000144597	2.376	2.554e-142	3.514e-140	EAF1
ENSG00000144645	-1.09	9.242e-14	3.916e-13	OSBPL10
ENSG00000144647	-2.453	1.228e-24	8.765e-24	POMGNT2
ENSG00000144655	1.844	1.394e-13	5.85e-13	CSRNP1
ENSG00000144659	-1.467	1.177e-16	5.758e-16	SLC25A38
ENSG00000144671	3.589	1.039e-08	3.185e-08	SLC22A14
ENSG00000144677	-1.614	4.203e-52	8.008e-51	CTDSPL
ENSG00000144681	-1.478	1.874e-21	1.161e-20	STAC
ENSG00000144711	-2.065	2.71e-26	2.087e-25	IQSEC1
ENSG00000144712	1.424	0.02387	0.03878	CAND2
ENSG00000144744	-1.01	2.263e-11	8.33e-11	UBA3
ENSG00000144746	-2.154	5.257e-57	1.152e-55	ARL6IP5
ENSG00000144785	2.147	5.656e-07	1.523e-06	RP11-977G19.10
ENSG00000144791	-1.563	4.35e-26	3.322e-25	LIMD1
ENSG00000144810	-2.222	1.866e-21	1.156e-20	COL8A1
ENSG00000144815	-1.407	3.639e-19	2.019e-18	NXPE3

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ENSG00000144827	-2.297	2.18e-48	3.733e-47	ABHD10
ENSG00000144834	4.717	6.154e-18	3.221e-17	TAGLN3
ENSG00000144843	-2.712	1.21e-07	3.446e-07	ADPRH
ENSG00000144895	1.143	6.074e-18	3.18e-17	EIF2A
ENSG00000144909	-1.342	1.441e-19	8.152e-19	OSBPL11
ENSG00000144935	-1.176	0.007078	0.01255	TRPC1
ENSG00000144959	-1.224	5.989e-26	4.553e-25	NCEH1
ENSG00000145002	-1.326	5.732e-05	0.0001297	FAM86B2
ENSG00000145014	-1.906	4.996e-18	2.627e-17	TMEM44
ENSG00000145016	1.221	4.011e-33	4.103e-32	KIAA0226
ENSG00000145020	-2.507	2.822e-10	9.669e-10	AMT
ENSG00000145029	-1.305	6.006e-06	1.481e-05	NICN1
ENSG00000145050	1.84	3.594e-35	4.014e-34	MANF
ENSG00000145087	-4.14	3.784e-05	8.696e-05	STXBP5L
ENSG00000145103	-3.797	4.619e-06	1.15e-05	ILDR1
ENSG00000145107	1.321	6.683e-13	2.691e-12	TM4SF19
ENSG00000145194	-1.689	6.38e-23	4.188e-22	ECE2
ENSG00000145198	4.411	3.075e-11	1.121e-10	VWA5B2
ENSG00000145214	-1.632	1.328e-10	4.647e-10	DGKQ
ENSG00000145246	-1.994	5.889e-49	1.032e-47	ATP10D
ENSG00000145284	-1.223	1.96e-30	1.779e-29	SCD5
ENSG00000145332	-1.18	5.522e-13	2.233e-12	KLHL8
ENSG00000145337	-1.184	1.713e-15	7.891e-15	PYURF
ENSG00000145365	-4.458	7.2e-59	1.669e-57	TIFA
ENSG00000145386	-4.037	8.052e-228	3.755e-225	CCNA2
ENSG00000145388	1.078	9.242e-15	4.119e-14	METTL14
ENSG00000145390	1.102	1.108e-18	6.013e-18	USP53
ENSG00000145416	-2.722	6.269e-32	6.089e-31	1-Mar
ENSG00000145431	-1.023	3.411e-07	9.372e-07	PDGFC
ENSG00000145476	-1.297	1.494e-18	8.068e-18	CYP4V2
ENSG00000145495	1.091	5.437e-26	4.143e-25	6-Mar
ENSG00000145555	2.149	1.309e-100	8.651e-99	MYO10
ENSG00000145569	-1.454	1.116e-06	2.937e-06	FAM105A
ENSG00000145604	-3.437	3.567e-239	1.761e-236	SKP2
ENSG00000145623	1.557	2.171e-56	4.655e-55	OSMR
ENSG00000145675	-1.998	1.646e-12	6.472e-12	PIK3R1
ENSG00000145687	-1.252	0.0002422	0.0005138	SSBP2
ENSG00000145692	5.66	3.349e-09	1.066e-08	BHMT
ENSG00000145703	2.543	3.234e-05	7.473e-05	IQGAP2
ENSG00000145779	-1.445	2.357e-33	2.424e-32	TNFAIP8
ENSG00000145780	1.285	7.752e-18	4.027e-17	FEM1C
ENSG00000145860	-1.083	2.177e-15	9.995e-15	RNF145
ENSG00000145868	1.265	2.678e-22	1.716e-21	FBXO38
ENSG00000145882	-1.691	1.55e-16	7.535e-16	PCYOX1L

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ENSG00000145911	-1.84	1.828e-07	5.121e-07	N4BP3
ENSG00000145920	2.634	7.372e-05	0.0001649	CPLX2
ENSG00000145945	-4.593	7.224e-13	2.902e-12	FAM50B
ENSG00000145965	-2.301	0.006123	0.01095	C6ORF50
ENSG00000145975	2.619	3.363e-07	9.243e-07	FAM217A
ENSG00000145990	-2.204	3.736e-54	7.501e-53	GFOD1
ENSG00000146006	2.496	3.355e-12	1.293e-11	LRRTM2
ENSG00000146038	-1.835	0.01877	0.03109	DCDC2
ENSG00000146054	-2.738	2.537e-18	1.355e-17	TRIM7
ENSG00000146063	-1.132	5.241e-22	3.313e-21	TRIM41
ENSG00000146072	-2.419	1.521e-103	1.064e-101	TNFRSF21
ENSG00000146083	1.118	2.876e-22	1.839e-21	RNF44
ENSG00000146094	1.556	5.405e-07	1.458e-06	DOK3
ENSG00000146166	5.357	2.093e-07	5.84e-07	LGSN
ENSG00000146233	1.213	0.002219	0.004223	CYP39A1
ENSG00000146242	-1.081	1.265e-14	5.587e-14	TPBG
ENSG00000146243	-1.904	1.263e-12	5.004e-12	IRAK1BP1
ENSG00000146263	-1.829	2.082e-76	7.871e-75	MMS22L
ENSG00000146267	-3.475	1.079e-14	4.784e-14	FAXC
ENSG00000146278	1.767	4.031e-29	3.495e-28	PNRC1
ENSG00000146281	-2.213	8.112e-103	5.627e-101	PM20D2
ENSG00000146350	-1.429	1.588e-12	6.252e-12	TBC1D32
ENSG00000146373	-1.079	2.881e-24	2.022e-23	RNF217
ENSG00000146374	1.848	0.02519	0.04079	RSPO3
ENSG00000146376	-1.311	1.536e-23	1.04e-22	ARHGAP18
ENSG00000146399	3.219	0.01705	0.02846	TAAR1
ENSG00000146409	-1.172	4.347e-19	2.402e-18	SLC18B1
ENSG00000146410	-1.089	4.829e-10	1.627e-09	MTFR2
ENSG00000146411	-1.771	5.817e-05	0.0001315	SLC2A12
ENSG00000146414	-1.34	1.068e-30	9.821e-30	SHPRH
ENSG00000146425	-1.075	5.939e-10	1.989e-09	DYNLT1
ENSG00000146453	4.863	1.052e-06	2.775e-06	PNLDC1
ENSG00000146469	5.897	1.884e-10	6.521e-10	VIP
ENSG00000146530	-2.225	1.1e-22	7.154e-22	VWDE
ENSG00000146540	-1.135	8.613e-18	4.468e-17	C7orf50
ENSG00000146576	-1.399	2.193e-23	1.476e-22	C7orf26
ENSG00000146592	4.251	3.805e-86	1.841e-84	CREB5
ENSG00000146670	-1.009	2.111e-11	7.793e-11	CDCA5
ENSG00000146674	-2.655	2.392e-132	2.868e-130	IGFBP3
ENSG00000146678	2.214	0.02017	0.03326	IGFBP1
ENSG00000146733	-1.739	5.952e-38	7.396e-37	PSPH
ENSG00000146757	1.687	3.229e-24	2.261e-23	ZNF92
ENSG00000146776	-1.125	2.738e-07	7.579e-07	ATXN7L1
ENSG00000146802	-1.584	7.524e-34	7.929e-33	TMEM168

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ENSG00000146828	-1.924	1.311e-18	7.101e-18	SLC12A9
ENSG00000146830	-1.582	5.918e-41	8.099e-40	GIGYF1
ENSG00000146834	-1.856	7.67e-46	1.225e-44	MEPCE
ENSG00000146856	-1.56	4.163e-05	9.537e-05	AGBL3
ENSG00000146858	-3.051	3.706e-37	4.45e-36	ZC3HAV1L
ENSG00000146904	-1.48	3.8e-16	1.816e-15	EPHA1
ENSG00000146950	-2.541	1.243e-37	1.525e-36	SHROOM2
ENSG00000146966	-1.86	7.7e-13	3.09e-12	DENND2A
ENSG00000147003	1.085	4.61e-13	1.874e-12	TMEM27
ENSG00000147010	2.069	4.141e-34	4.416e-33	SH3KBP1
ENSG00000147050	1.648	2.245e-31	2.134e-30	KDM6A
ENSG00000147059	-1.456	0.003451	0.006385	SPIN2A
ENSG00000147065	1.349	9.545e-23	6.222e-22	MSN
ENSG00000147082	1.031	0.01314	0.02235	CCNB3
ENSG00000147100	-1.154	0.002816	0.00528	SLC16A2
ENSG00000147113	3.815	0.0007938	0.001591	CXorf36
ENSG00000147119	-1.691	0.0003058	0.0006424	CHST7
ENSG00000147130	-4.183	8.688e-172	1.894e-169	ZMYM3
ENSG00000147144	-1.712	1.038e-26	8.094e-26	CCDC120
ENSG00000147162	1.132	1.61e-58	3.703e-57	OGT
ENSG00000147168	4.591	8.398e-06	2.044e-05	IL2RG
ENSG00000147174	3.083	4.299e-31	4.018e-30	ACRC
ENSG00000147206	3.652	0.0004404	0.0009089	NXF3
ENSG00000147224	-1.306	7.425e-17	3.672e-16	PRPS1
ENSG00000147231	-1.53	1.408e-05	3.358e-05	CXorf57
ENSG00000147234	-2.717	0.001503	0.002925	FRMPD3
ENSG00000147251	-1.656	7.216e-26	5.464e-25	DOCK11
ENSG00000147382	-1.416	6.416e-14	2.736e-13	FAM58A
ENSG00000147421	1.206	3.725e-17	1.872e-16	HMBOX1
ENSG00000147576	-1.422	0.0006596	0.001336	ADHFE1
ENSG00000147614	1.594	0.0005287	0.001083	ATP6V0D2
ENSG00000147642	-2.445	3.454e-12	1.33e-11	SYBU
ENSG00000147654	-1.115	1.218e-07	3.467e-07	EBAG9
ENSG00000147697	-1.966	0.0001743	0.0003751	GSDMC
ENSG00000147862	-1.59	1.594e-27	1.285e-26	NFIB
ENSG00000147872	-1.234	4.275e-08	1.254e-07	PLIN2
ENSG00000147883	-1.403	3.918e-21	2.386e-20	CDKN2B
ENSG00000147894	1.675	2.157e-21	1.331e-20	C9orf72
ENSG00000147905	1.093	3.419e-08	1.011e-07	ZCCHC7
ENSG00000147912	-1.041	3.39e-06	8.54e-06	FBXO10
ENSG00000147955	-1.475	1.605e-25	1.198e-24	SIGMAR1
ENSG00000148019	-2.106	9.245e-86	4.409e-84	CEP78
ENSG00000148057	-1.771	3.724e-09	1.181e-08	IDNK
ENSG00000148082	-2.372	5.859e-21	3.539e-20	SHC3

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ENSG00000148110	-1.057	1.695e-21	1.052e-20	HIATL1
ENSG00000148143	-1.598	3.85e-13	1.574e-12	ZNF462
ENSG00000148175	-1.256	1.105e-12	4.399e-12	STOM
ENSG00000148204	2.198	0.000346	0.0007228	CRB2
ENSG00000148218	-2.73	2.819e-62	7.427e-61	ALAD
ENSG00000148219	-1.137	0.01038	0.01795	ASTN2
ENSG00000148225	-2.555	1.112e-12	4.422e-12	WDR31
ENSG00000148229	-1.213	2.219e-15	1.018e-14	POLE3
ENSG00000148296	-1.757	3.943e-26	3.017e-25	SURF6
ENSG00000148297	-2.331	2.12e-93	1.227e-91	MED22
ENSG00000148334	-1.508	1.056e-14	4.686e-14	PTGES2
ENSG00000148339	1.547	4.361e-21	2.651e-20	SLC25A25
ENSG00000148343	-1.549	1.46e-08	4.424e-08	FAM73B
ENSG00000148344	-1.39	4.349e-17	2.18e-16	PTGES
ENSG00000148356	-1.278	6.384e-15	2.865e-14	LRSAM1
ENSG00000148362	-1.291	3.322e-07	9.134e-07	C9orf142
ENSG00000148384	-2.338	4.326e-23	2.861e-22	INPP5E
ENSG00000148399	-1.449	7.362e-12	2.781e-11	DPH7
ENSG00000148400	1.183	4.941e-28	4.076e-27	NOTCH1
ENSG00000148408	3.582	0.00209	0.003998	CACNA1B
ENSG00000148411	-3.128	3.511e-65	1.004e-63	NACC2
ENSG00000148444	-1.15	5.335e-15	2.403e-14	COMMD3
ENSG00000148459	-1.397	1.959e-07	5.478e-07	PDSS1
ENSG00000148482	2.491	0.01845	0.03062	SLC39A12
ENSG00000148483	2.76	2.252e-17	1.142e-16	TMEM236
ENSG00000148516	5.309	1.506e-70	4.899e-69	ZEB1
ENSG00000148606	-1.015	5.079e-12	1.94e-11	POLR3A
ENSG00000148660	-2.019	6.879e-88	3.447e-86	CAMK2G
ENSG00000148677	4.075	0	0	ANKRD1
ENSG00000148680	-1.719	5.709e-16	2.698e-15	HTR7
ENSG00000148700	-1.07	6.391e-21	3.852e-20	ADD3
ENSG00000148730	-1.985	7.479e-109	5.759e-107	EIF4EBP2
ENSG00000148735	-3.638	5.041e-09	1.584e-08	PLEKHS1
ENSG00000148773	-3.452	1.52e-64	4.253e-63	MKI67
ENSG00000148814	-2.159	2.183e-09	7.032e-09	LRRC27
ENSG00000148824	-1.177	3.903e-10	1.323e-09	MTG1
ENSG00000148832	-2.193	6.768e-06	1.661e-05	PAOX
ENSG00000148926	1.833	1.793e-31	1.712e-30	ADM
ENSG00000148935	-3.068	0.0001517	0.0003286	GAS2
ENSG00000148943	1.486	4.069e-43	5.992e-42	LIN7C
ENSG00000148985	-1.847	1.617e-36	1.88e-35	PGAP2
ENSG00000149021	2.708	0.003611	0.006666	SCGB1A1
ENSG00000149043	-2.28	8.689e-06	2.112e-05	SYT8
ENSG00000149050	-1.467	0.02426	0.03938	ZNF214

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ENSG00000149054	-1.726	6.046e-13	2.441e-12	ZNF215
ENSG00000149115	-1.462	1.529e-23	1.036e-22	TNKS1BP1
ENSG00000149150	1.15	0.02728	0.04391	SLC43A1
ENSG00000149177	-1.804	1.389e-41	1.949e-40	PTPRJ
ENSG00000149196	1.152	1.872e-14	8.196e-14	C11orf73
ENSG00000149201	2.353	8.333e-17	4.114e-16	CCDC81
ENSG00000149212	2.338	0.009094	0.01586	SESN3
ENSG00000149218	-3.264	1.1e-65	3.183e-64	ENDOD1
ENSG00000149243	-2.815	1.371e-07	3.887e-07	KLHL35
ENSG00000149257	1.359	2.952e-29	2.571e-28	SERPINH1
ENSG00000149260	-1.236	0.0002381	0.0005058	CAPN5
ENSG00000149292	-1.719	7.404e-24	5.097e-23	TTC12
ENSG00000149300	-1.898	2.052e-07	5.732e-07	C11orf52
ENSG00000149313	-2.37	1.018e-74	3.699e-73	AASDHPPT
ENSG00000149418	-2.188	3.362e-139	4.444e-137	ST14
ENSG00000149428	1.076	1.289e-37	1.578e-36	HYOU1
ENSG00000149452	3.229	0.008785	0.01535	SLC22A8
ENSG00000149474	-4.588	2.907e-123	3.069e-121	CSRP2BP
ENSG00000149476	-1.122	7.606e-11	2.701e-10	DAK
ENSG00000149483	-1.164	3.936e-13	1.608e-12	TMEM138
ENSG00000149488	3.893	1.602e-06	4.15e-06	TMC2
ENSG00000149499	-1.61	1.524e-14	6.702e-14	EML3
ENSG00000149503	-1.438	3.386e-41	4.674e-40	INCENP
ENSG00000149531	-1.424	4.733e-15	2.14e-14	FRG1B
ENSG00000149541	-1.898	4.251e-34	4.528e-33	B3GAT3
ENSG00000149548	-1.053	4.265e-06	1.065e-05	CCDC15
ENSG00000149554	-1.512	1.148e-34	1.255e-33	CHEK1
ENSG00000149571	-1.444	0.01347	0.02287	KIRREL3
ENSG00000149573	-1.1	1.194e-17	6.151e-17	MPZL2
ENSG00000149577	1.491	1.179e-35	1.337e-34	SIDT2
ENSG00000149582	-1.783	1.153e-12	4.579e-12	TMEM25
ENSG00000149591	2.415	7.081e-33	7.182e-32	TAGLN
ENSG00000149596	-2.115	2.223e-16	1.074e-15	JPH2
ENSG00000149599	3.08	0.01228	0.02099	DUSP15
ENSG00000149600	-1.077	2.368e-06	6.034e-06	COMMD7
ENSG00000149609	1.846	0.007915	0.01394	C20orf144
ENSG00000149633	1.753	0.0113	0.01943	KIAA1755
ENSG00000149634	-1.631	0.03035	0.04842	SPATA25
ENSG00000149636	-2.248	1.749e-34	1.903e-33	DSN1
ENSG00000149639	-2.317	4.04e-88	2.043e-86	SOGA1
ENSG00000149646	1.644	0.01118	0.01923	CNBD2
ENSG00000149657	-2.238	1.644e-79	6.586e-78	LSM14B
ENSG00000149761	-1.904	2.845e-24	1.998e-23	NUDT22
ENSG00000149781	4.233	1.21e-48	2.1e-47	FERMT3

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ENSG00000149782	-1.638	1.642e-43	2.451e-42	PLCB3
ENSG00000149792	-1.373	6.193e-29	5.315e-28	MRPL49
ENSG00000149927	-2.135	0.00203	0.003889	DOC2A
ENSG00000149929	-1.14	1.269e-11	4.734e-11	HIRIP3
ENSG00000149968	8.761	3.94e-83	1.754e-81	MMP3
ENSG00000149972	3.093	0.01211	0.02071	CNTN5
ENSG00000150337	3.965	1.147e-41	1.611e-40	FCGR1A
ENSG00000150433	-1.085	1.644e-06	4.254e-06	TMEM218
ENSG00000150456	-1.807	7.809e-12	2.946e-11	N6AMT2
ENSG00000150510	-2.439	0.008857	0.01547	FAM124A
ENSG00000150627	-1.061	2.042e-09	6.595e-09	WDR17
ENSG00000150687	-2.582	2.408e-200	8.981e-198	PRSS23
ENSG00000150712	-1.113	9.517e-31	8.783e-30	MTMR12
ENSG00000150893	-3.459	1.09e-75	4.046e-74	FREM2
ENSG00000150961	1.575	1.734e-30	1.577e-29	SEC24D
ENSG00000150967	-1.783	1.993e-10	6.888e-10	ABCB9
ENSG00000150977	-1.435	0.0006947	0.001401	RILPL2
ENSG00000150991	3.156	2.039e-144	2.877e-142	UBC
ENSG00000151006	-2.5	2.192e-11	8.075e-11	PRSS53
ENSG00000151012	2.707	6.63e-268	3.837e-265	SLC7A11
ENSG00000151014	1.624	1.325e-23	9.007e-23	CCR4L
ENSG00000151062	2.328	1.027e-08	3.149e-08	CACNA2D4
ENSG00000151065	-4.082	4.643e-15	2.101e-14	DCP1B
ENSG00000151117	-1.466	0.001376	0.002689	TMEM86A
ENSG00000151150	-1.274	3.741e-10	1.269e-09	ANK3
ENSG00000151208	-1.106	5.287e-37	6.303e-36	DLG5
ENSG00000151224	2.724	0.008991	0.01569	MAT1A
ENSG00000151229	-1.119	0.004379	0.007988	SLC2A13
ENSG00000151233	-1.581	3.425e-46	5.533e-45	GXYLT1
ENSG00000151287	-1.577	3.159e-17	1.592e-16	TEX30
ENSG00000151353	-1.014	1.685e-06	4.356e-06	TMEM18
ENSG00000151376	-1.123	6.385e-17	3.17e-16	ME3
ENSG00000151388	-1.293	1.966e-39	2.553e-38	ADAMTS12
ENSG00000151466	-1.818	2.829e-22	1.81e-21	SCLT1
ENSG00000151475	3.171	0.02461	0.0399	SLC25A31
ENSG00000151498	-1.916	4.014e-34	4.289e-33	ACAD8
ENSG00000151500	-1.577	4.566e-18	2.405e-17	THYN1
ENSG00000151502	-1.08	1.81e-19	1.019e-18	VPS26B
ENSG00000151503	-1.741	4.38e-64	1.207e-62	NCAPD3
ENSG00000151552	-1.401	8.52e-12	3.207e-11	QDPR
ENSG00000151611	-1.843	1.479e-09	4.827e-09	MMAA
ENSG00000151612	-2.487	7.786e-41	1.06e-39	ZNF827
ENSG00000151692	-1.116	0.0001275	0.0002783	RNF144A
ENSG00000151693	1.162	3.603e-19	2e-18	ASAP2

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ENSG00000151694	1.479	3.963e-83	1.76e-81	ADAM17
ENSG00000151726	-1.448	6.646e-17	3.297e-16	ACSL1
ENSG00000151729	-1.185	5.362e-21	3.247e-20	SLC25A4
ENSG00000151743	1.275	3.725e-11	1.352e-10	AMN1
ENSG00000151812	2.361	0.005125	0.00927	SLC35F4
ENSG00000151835	-2.501	5.133e-65	1.453e-63	SACS
ENSG00000151846	1.507	0.002059	0.003941	PABPC3
ENSG00000151876	-1.692	4.198e-22	2.668e-21	FBXO4
ENSG00000151882	-2.086	1.079e-14	4.785e-14	CCL28
ENSG00000151883	-1.656	0.0001177	0.0002581	PARP8
ENSG00000151914	1.072	3.571e-22	2.276e-21	DST
ENSG00000151929	3.409	6.816e-119	6.614e-117	BAG3
ENSG00000151967	1.513	1.003e-06	2.651e-06	SCHIP1
ENSG00000152049	4.137	1.957e-06	5.025e-06	KCNE4
ENSG00000152056	-1.672	1.464e-36	1.707e-35	AP1S3
ENSG00000152127	-1.461	4.099e-41	5.649e-40	MGAT5
ENSG00000152137	4.046	0	0	HSPB8
ENSG00000152147	-1.788	1.913e-25	1.42e-24	GEMIN6
ENSG00000152193	-1.339	1.466e-27	1.184e-26	RNF219
ENSG00000152213	-2.1	3.212e-08	9.518e-08	ARL11
ENSG00000152217	-1.975	7.045e-24	4.855e-23	SETBP1
ENSG00000152219	-1.273	7.44e-26	5.631e-25	ARL14EP
ENSG00000152253	-1.499	1.798e-18	9.659e-18	SPC25
ENSG00000152270	-3.189	0.0002919	0.0006145	PDE3B
ENSG00000152284	-2.434	4.34e-21	2.639e-20	TCF7L1
ENSG00000152348	-1.489	1.641e-09	5.342e-09	ATG10
ENSG00000152359	-2.083	4.17e-34	4.445e-33	POC5
ENSG00000152382	-2.305	3.093e-27	2.471e-26	TADA1
ENSG00000152433	1.87	4.044e-10	1.369e-09	ZNF547
ENSG00000152439	-1.153	3.777e-08	1.113e-07	ZNF773
ENSG00000152463	4.504	2.94e-08	8.733e-08	OLAH
ENSG00000152503	1.179	0.01594	0.02674	TRIM36
ENSG00000152518	-3.582	1.248e-149	1.996e-147	ZFP36L2
ENSG00000152582	-2.393	1.695e-12	6.655e-12	SPEF2
ENSG00000152620	-2.211	7.426e-61	1.866e-59	NADK2
ENSG00000152642	-1.244	1.454e-19	8.222e-19	GPD1L
ENSG00000152669	-3.303	4.981e-20	2.876e-19	CCNO
ENSG00000152689	1.36	0.004283	0.007829	RASGRP3
ENSG00000152749	-2.718	3.171e-73	1.102e-71	GPR180
ENSG00000152766	-1.965	3.177e-12	1.228e-11	ANKRD22
ENSG00000152778	-1.927	1.558e-19	8.793e-19	IFIT5
ENSG00000152782	-3.974	4.281e-87	2.126e-85	PANK1
ENSG00000152785	-4.132	4.432e-07	1.205e-06	BMP3
ENSG00000152804	-3.149	3.09e-29	2.686e-28	HHEX

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ENSG00000152822	2.274	0.005143	0.009301	GRM1
ENSG00000152894	1.215	1.897e-31	1.81e-30	PTPRK
ENSG00000152939	-2.557	4.847e-27	3.833e-26	MARVELD2
ENSG00000152952	2.399	4.587e-207	1.833e-204	PLOD2
ENSG00000152953	3.155	0.02047	0.03371	STK32B
ENSG00000152990	-1.749	2.932e-51	5.445e-50	GPR125
ENSG00000153006	1.829	5.144e-68	1.582e-66	SREK1IP1
ENSG00000153015	1.009	5.136e-08	1.498e-07	CWC27
ENSG00000153029	-1.185	1.809e-14	7.932e-14	MR1
ENSG00000153048	-1.293	1.315e-17	6.749e-17	CARHSP1
ENSG00000153064	-1.078	0.00112	0.002209	BANK1
ENSG00000153071	-1.459	7.157e-10	2.385e-09	DAB2
ENSG00000153086	1.759	0.01228	0.02099	ACMSD
ENSG00000153093	-1.071	2.697e-05	6.269e-05	ACOXL
ENSG00000153094	-2.439	9.597e-67	2.861e-65	BCL2L11
ENSG00000153107	-1.544	1.257e-54	2.559e-53	ANAPC1
ENSG00000153140	-1.344	8.894e-20	5.078e-19	CETN3
ENSG00000153162	2.119	4.568e-30	4.083e-29	BMP6
ENSG00000153165	1.425	9.636e-05	0.0002134	RGPD3
ENSG00000153179	-1.533	3.134e-22	2.002e-21	RASSF3
ENSG00000153233	-2.336	2.434e-44	3.718e-43	PTPRR
ENSG00000153234	3.028	6.979e-23	4.574e-22	NR4A2
ENSG00000153292	-2.356	2.273e-58	5.206e-57	GPR110
ENSG00000153294	-1.239	6.517e-11	2.327e-10	GPR115
ENSG00000153303	3.193	0.003278	0.006084	FRMD1
ENSG00000153395	-2.764	2.425e-201	9.252999999999999e-199	LPCAT1
ENSG00000153404	1.103	0.01941	0.03209	PLEKHG4B
ENSG00000153406	-1.728	1.218e-19	6.915e-19	NMRAL1
ENSG00000153551	-1.635	2.586e-12	1.004e-11	CMTM7
ENSG00000153575	-3.533	7.201e-72	2.413e-70	TUBGCP5
ENSG00000153714	-1.25	0.01878	0.0311	LURAP1L
ENSG00000153721	-1.974	1.433e-17	7.339e-17	CNKSR3
ENSG00000153790	-1.124	0.01387	0.02351	C7orf31
ENSG00000153815	1.412	6.669e-12	2.527e-11	CMIP
ENSG00000153896	-2.735	1.066e-11	3.997e-11	ZNF599
ENSG00000153898	-1.426	2.259e-08	6.764e-08	MCOLN2
ENSG00000153902	1.758	3.675e-05	8.454e-05	LGI4
ENSG00000153904	-1.047	3.683e-13	1.507e-12	DDAH1
ENSG00000153956	-1.058	0.001369	0.002676	CACNA2D1
ENSG00000153975	1.119	1.785e-19	1.005e-18	ZUFSP
ENSG00000153982	-1.514	0.007892	0.01391	GDPD1
ENSG00000153993	-2.543	3.712e-05	8.534e-05	SEMA3D
ENSG00000154025	5.687	1.721e-09	5.586e-09	SLC5A10
ENSG00000154035	1.248	5.531e-08	1.61e-07	C17orf103

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ENSG00000154059	-1.266	2.469e-26	1.904e-25	IMPACT
ENSG00000154065	-1.335	0.0004616	0.00095	ANKRD29
ENSG00000154079	-1.62	1.449e-06	3.771e-06	C6orf57
ENSG00000154099	1.736	0.0009366	0.001864	DNAAF1
ENSG00000154102	-2.429	1.08e-11	4.047e-11	C16orf74
ENSG00000154118	3.679	4.024e-18	2.125e-17	JPH3
ENSG00000154133	3.384	0.01041	0.01799	ROBO4
ENSG00000154146	-1.302	0.001202	0.002364	NRGN
ENSG00000154175	1.131	0.01015	0.01758	ABI3BP
ENSG00000154188	-1.802	2.414e-05	5.644e-05	ANGPT1
ENSG00000154237	-1.598	2.514e-10	8.639e-10	LRRK1
ENSG00000154263	2.177	0.002663	0.005016	ABCA10
ENSG00000154274	-1.334	2.88e-13	1.186e-12	C4orf19
ENSG00000154309	-1.015	4.712e-08	1.378e-07	DISP1
ENSG00000154328	-1.776	2.878e-10	9.854e-10	NEIL2
ENSG00000154358	-1.509	2.592e-25	1.909e-24	OBSCN
ENSG00000154370	1.995	1.456e-32	1.456e-31	TRIM11
ENSG00000154429	-2.112	2.555e-52	4.896e-51	CCSAP
ENSG00000154479	-1.801	0.0006235	0.001267	CCDC173
ENSG00000154493	1.86	0.00397	0.007284	C10orf90
ENSG00000154511	-2.38	5.642e-24	3.907e-23	FAM69A
ENSG00000154548	2.971	0.0183	0.03039	SRSF12
ENSG00000154589	1.719	0.005348	0.009652	LY96
ENSG00000154710	1.501	1.121e-33	1.169e-32	RABGEF1
ENSG00000154719	-1.154	1.684e-13	7.045e-13	MRPL39
ENSG00000154734	3.616	0.002806	0.005263	ADAMTS1
ENSG00000154743	-2.143	1.891e-39	2.463e-38	TSEN2
ENSG00000154760	-3.282	1.448e-77	5.667e-76	SLFN13
ENSG00000154764	-1.163	1.771e-09	5.743e-09	WNT7A
ENSG00000154781	1.203	1.11e-12	4.415e-12	CCDC174
ENSG00000154813	1.075	1.933e-16	9.351e-16	DPH3
ENSG00000154822	-2.342	4.391e-09	1.385e-08	PLCL2
ENSG00000154889	-2.539	1.496e-19	8.452e-19	MPPE1
ENSG00000154917	-1.388	1.48e-06	3.847e-06	RAB6B
ENSG00000154920	-1.506	2.917e-18	1.552e-17	EME1
ENSG00000154930	-2.744	6.429e-12	2.438e-11	ACSS1
ENSG00000154945	-1.307	2.954e-15	1.347e-14	ANKRD40
ENSG00000154957	-1.254	2.177e-05	5.109e-05	ZNF18
ENSG00000154978	-1.077	7.063e-11	2.514e-10	VOPP1
ENSG00000155016	-1.013	0.002103	0.00402	CYP2U1
ENSG00000155026	2.323	0.0004317	0.0008922	RSPH10B
ENSG00000155085	1.458	9.863e-07	2.608e-06	AK9
ENSG00000155096	1.7	1.513e-59	3.65e-58	AZIN1
ENSG00000155130	-1.18	6.312e-38	7.814e-37	MARCKS

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ENSG00000155189	-1.532	3.071e-13	1.262e-12	AGPAT5
ENSG00000155254	-4.766	1.11e-184	2.866e-182	MARVELD1
ENSG00000155265	-1.056	5.489e-07	1.48e-06	GOLGA7B
ENSG00000155269	-1.347	3.168e-23	2.114e-22	GPR78
ENSG00000155275	2.059	1.179e-40	1.593e-39	TRMT44
ENSG00000155287	-1.318	2.492e-11	9.153e-11	SLC25A28
ENSG00000155304	1.557	4.475e-29	3.874e-28	HSPA13
ENSG00000155324	-1.708	1.687e-39	2.202e-38	GRAMD3
ENSG00000155363	-1.779	4.195e-65	1.192e-63	MOV10
ENSG00000155393	-2.058	1.773e-72	6.035e-71	HEATR3
ENSG00000155629	-2.069	3.479e-09	1.106e-08	PIK3AP1
ENSG00000155636	-1.813	3.314e-25	2.426e-24	RBM45
ENSG00000155666	-2.48	2.136e-09	6.891e-09	KDM8
ENSG00000155719	4.249	0.0001315	0.0002868	OTOA
ENSG00000155729	-1.336	9.316e-23	6.078e-22	KCTD18
ENSG00000155755	-1.31	1.848e-25	1.375e-24	TMEM237
ENSG00000155760	-1.605	1.428e-12	5.642e-12	FZD7
ENSG00000155761	1.694	8.108e-05	0.0001806	SPAG17
ENSG00000155816	2.897	0.001054	0.002086	FMN2
ENSG00000155846	-4.612	5.923e-91	3.186e-89	PPARGC1B
ENSG00000155850	-2.819	1.021e-101	6.911e-100	SLC26A2
ENSG00000155858	-1.815	1.001e-21	6.276e-21	LSM11
ENSG00000155876	-1.988	1.318e-29	1.162e-28	RRAGA
ENSG00000155893	-3.572	1.734e-56	3.727e-55	ACPL2
ENSG00000155918	1.306	0.008472	0.01485	RAET1L
ENSG00000155961	3.73	3.492e-08	1.031e-07	RAB39B
ENSG00000155970	-1.23	2.102e-06	5.377e-06	MICU3
ENSG00000155980	3.42	3.195e-13	1.311e-12	KIF5A
ENSG00000155984	-1.788	1.732e-18	9.32e-18	TMEM185A
ENSG00000156017	-1.209	2.739e-19	1.528e-18	C9orf41
ENSG00000156103	-1.791	0.001856	0.003573	MMP16
ENSG00000156127	-1.403	3.163e-23	2.111e-22	BATF
ENSG00000156136	-2.049	6.983e-34	7.373e-33	DCK
ENSG00000156162	-2.005	4.129e-62	1.08e-60	DPY19L4
ENSG00000156170	-1.44	8.729e-16	4.086e-15	NDUFAF6
ENSG00000156172	-1.165	8.578e-06	2.086e-05	C8orf37
ENSG00000156206	2.854	0.005309	0.009587	C15orf26
ENSG00000156253	-1.795	1.852e-25	1.377e-24	RWDD2B
ENSG00000156265	2.999	0.003923	0.007203	MAP3K7CL
ENSG00000156273	1.581	3.871e-41	5.34e-40	BACH1
ENSG00000156299	-1.859	2.85e-30	2.572e-29	TIAM1
ENSG00000156345	-1.413	4e-11	1.448e-10	CDK20
ENSG00000156381	-2.273	6.482e-18	3.388e-17	ANKRD9
ENSG00000156384	-1.546	4.774e-12	1.827e-11	SFR1

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ENSG00000156398	-1.875	5.267e-17	2.629e-16	SFXN2
ENSG00000156413	1.47	0.008116	0.01427	FUT6
ENSG00000156453	-1.374	1.74e-22	1.122e-21	PCDH1
ENSG00000156469	-1.548	3.721e-27	2.96e-26	MTERFD1
ENSG00000156500	1.019	0.001337	0.002616	FAM122C
ENSG00000156502	1.5	6.863e-70	2.198e-68	SUPV3L1
ENSG00000156510	1.469	2.504e-36	2.899e-35	HKDC1
ENSG00000156521	-3.523	1.363e-78	5.41e-77	TYSND1
ENSG00000156599	-1.211	8.308e-34	8.722e-33	ZDHHC5
ENSG00000156639	1.783	1.842e-103	1.283e-101	ZFAND3
ENSG00000156802	-1.319	3.27e-28	2.711e-27	ATAD2
ENSG00000156860	1.357	3.646e-46	5.884e-45	FBRS
ENSG00000156869	-1.252	1.186e-11	4.439e-11	FRRS1
ENSG00000156928	-2.034	9.18e-21	5.48e-20	MALSU1
ENSG00000156959	3.873	2.478e-06	6.302e-06	LHFPL4
ENSG00000156966	-4.818	7.312e-11	2.6e-10	B3GNT7
ENSG00000156970	-3.293	3.115e-147	4.628e-145	BUB1B
ENSG00000156976	-1.046	3.297e-29	2.865e-28	EIF4A2
ENSG00000156983	-1.857	8.009e-27	6.288e-26	BRPF1
ENSG00000156990	-1.297	2.162e-21	1.334e-20	RPUSD3
ENSG00000157014	-1.638	1.556e-48	2.693e-47	TATDN2
ENSG00000157036	-1.194	3.823e-07	1.046e-06	EXOG
ENSG00000157111	-1.724	2.494e-13	1.032e-12	TMEM171
ENSG00000157168	4.635	2.22e-80	9.246e-79	NRG1
ENSG00000157184	-2.376	9.228e-87	4.556e-85	CPT2
ENSG00000157212	-1.501	1.336e-23	9.079e-23	PAXIP1
ENSG00000157214	-4.08	5.406e-64	1.483e-62	STEAP2
ENSG00000157216	-1.931	6.202e-35	6.844e-34	SSBP3
ENSG00000157227	-1.747	1.253e-09	4.117e-09	MMP14
ENSG00000157240	-3.921	1.156e-42	1.673e-41	FZD1
ENSG00000157259	-1.118	4.264e-18	2.249e-17	GATAD1
ENSG00000157335	1.786	0.004793	0.008696	CLEC18C
ENSG00000157350	-2.104	6.145e-12	2.335e-11	ST3GAL2
ENSG00000157429	-1.137	0.004451	0.008105	ZNF19
ENSG00000157456	-2.572	1.94e-40	2.605e-39	CCNB2
ENSG00000157470	-2.139	1.988e-19	1.116e-18	FAM81A
ENSG00000157500	-1.679	3.84e-58	8.721e-57	APPL1
ENSG00000157540	1.8	2.017e-59	4.836e-58	DYRK1A
ENSG00000157542	5.14	2.119e-07	5.906e-07	KCNJ6
ENSG00000157570	2.373	0.02384	0.03874	TSPAN18
ENSG00000157578	-1.056	0.008683	0.01518	LCA5L
ENSG00000157601	-1.619	4.327e-12	1.66e-11	MX1
ENSG00000157617	-1.241	4.817e-16	2.29e-15	C2CD2
ENSG00000157637	-1.64	2.085e-49	3.695e-48	SLC38A10

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ENSG00000157680	5.176	5.445e-07	1.468e-06	DGKI
ENSG00000157734	2.527	0.0005385	0.001101	SNX22
ENSG00000157778	-1.768	8.126e-22	5.101e-21	PSMG3
ENSG00000157833	-2.899	1.784e-11	6.603e-11	GAREML
ENSG00000157851	-2.56	3.432e-06	8.633e-06	DPYSL5
ENSG00000157870	-2.178	1.903e-32	1.893e-31	FAM213B
ENSG00000157873	-1.414	0.002304	0.004376	TNFRSF14
ENSG00000157881	-1.688	2.17e-20	1.276e-19	PANK4
ENSG00000157911	-1.509	4.744e-17	2.375e-16	PEX10
ENSG00000157927	5.055	1.368e-16	6.676e-16	RADIL
ENSG00000157933	-1.222	7.193e-36	8.197e-35	SKI
ENSG00000157978	-3.072	4.746e-97	2.918e-95	LDLRAP1
ENSG00000158042	-1.756	4.552e-50	8.198e-49	MRPL17
ENSG00000158050	4.342	3.337e-53	6.543e-52	DUSP2
ENSG00000158079	-1.282	3.053e-13	1.255e-12	PTPDC1
ENSG00000158092	-1.039	1.319e-18	7.138e-18	NCK1
ENSG00000158104	3.063	3.058e-34	3.286e-33	HPD
ENSG00000158106	-2.638	9.858e-28	8.041e-27	RHPN1
ENSG00000158156	-3.317	9.272e-15	4.132e-14	XKR8
ENSG00000158161	1.329	1.929e-21	1.194e-20	EYA3
ENSG00000158163	-3.507	1.829e-08	5.508e-08	DZIP1L
ENSG00000158169	-1.613	2.17e-23	1.461e-22	FANCC
ENSG00000158186	-1.108	9.617e-06	2.33e-05	MRAS
ENSG00000158201	1.274	4.458e-20	2.578e-19	ABHD3
ENSG00000158220	-1.843	8.472e-18	4.396e-17	ESYT3
ENSG00000158234	-2.093	2.141e-28	1.791e-27	FAIM
ENSG00000158286	-2.9	1.24e-27	1.006e-26	RNF207
ENSG00000158292	-1.102	2.176e-09	7.011e-09	GPR153
ENSG00000158301	-1.809	0.001204	0.002369	GPRASP2
ENSG00000158402	-1.175	6.177e-16	2.917e-15	CDC25C
ENSG00000158406	1.598	4.203e-06	1.05e-05	HIST1H4H
ENSG00000158435	-1.186	2.1e-25	1.558e-24	CNOT11
ENSG00000158480	2.584	1.31e-53	2.588e-52	SPATA2
ENSG00000158483	-2.253	2.129e-43	3.172e-42	FAM86C1
ENSG00000158528	-1.158	1.151e-21	7.192e-21	PPP1R9A
ENSG00000158555	-1.252	2.573e-09	8.249e-09	GDPD5
ENSG00000158615	1.116	9.61e-32	9.287e-31	PPP1R15B
ENSG00000158683	1.572	0.02481	0.04022	PKD1L1
ENSG00000158691	-2.66	1.586e-43	2.373e-42	ZSCAN12
ENSG00000158711	-1.518	2.379e-28	1.987e-27	ELK4
ENSG00000158715	-2.716	6.808e-62	1.761e-60	SLC45A3
ENSG00000158716	-1.277	2.513e-06	6.387e-06	DUSP23
ENSG00000158717	-1.766	8.904e-27	6.971e-26	RNF166
ENSG00000158764	3.082	0.01674	0.02798	ITLN2

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ENSG00000158786	-1.28	0.00163	0.00316	PLA2G2F
ENSG00000158792	-2.791	2.227e-11	8.202e-11	SPATA2L
ENSG00000158806	2.476	0.009342	0.01627	NPM2
ENSG00000158815	4.928	8.439e-07	2.243e-06	FGF17
ENSG00000158859	3.077	0.01421	0.02406	ADAMTS4
ENSG00000158863	-1.764	5.534e-40	7.326e-39	FAM160B2
ENSG00000158865	1.068	0.002293	0.004355	SLC5A11
ENSG00000158882	-1.155	3.868e-05	8.884e-05	TOMM40L
ENSG00000158966	-1.277	1.777e-05	4.202e-05	CACHD1
ENSG00000158985	-1.871	8.836e-60	2.137e-58	CDC42SE2
ENSG00000159079	-1.2	9.162e-17	4.506e-16	C21orf59
ENSG00000159110	-1.499	5.532e-11	1.984e-10	IFNAR2
ENSG00000159128	-1.371	1.087e-20	6.471e-20	IFNGR2
ENSG00000159164	3.592	2.043e-07	5.709e-07	SV2A
ENSG00000159167	1.789	1.919e-10	6.635e-10	STC1
ENSG00000159173	-1.827	0.001	0.001985	TNNI1
ENSG00000159202	-1.309	2.556e-25	1.883e-24	UBE2Z
ENSG00000159212	3.486	0.002884	0.005398	CLIC6
ENSG00000159214	-1.417	8.357e-16	3.917e-15	CCDC24
ENSG00000159217	-1.967	6.626e-100	4.311e-98	IGF2BP1
ENSG00000159231	-1.081	0.0001707	0.0003678	CBR3
ENSG00000159239	-1.971	8.869e-05	0.000197	C2orf81
ENSG00000159256	2.297	4.792e-63	1.279e-61	MORC3
ENSG00000159259	-1.944	1.255e-39	1.643e-38	CHAF1B
ENSG00000159289	3.884	1.014e-09	3.354e-09	GOLGA6A
ENSG00000159314	-1.601	3.618e-28	2.993e-27	ARHGAP27
ENSG00000159337	2.554	1.294e-07	3.676e-07	PLA2G4D
ENSG00000159374	-1.791	2.736e-11	1.002e-10	M1AP
ENSG00000159387	-3.859	3.749e-23	2.492e-22	IRX6
ENSG00000159388	-1.603	3.477e-07	9.548e-07	BTG2
ENSG00000159399	1.572	1.27e-42	1.833e-41	HK2
ENSG00000159433	-1.688	0.00321	0.005969	STARD9
ENSG00000159445	-2.351	4.129e-55	8.493e-54	THEM4
ENSG00000159450	-2.475	1.781e-07	4.995e-07	TCHH
ENSG00000159579	1.015	3.813e-31	3.577e-30	RSPRY1
ENSG00000159648	4.902	4.339e-09	1.369e-08	TEPP
ENSG00000159692	-2.349	4.187e-81	1.775e-79	CTBP1
ENSG00000159714	-1.484	0.0002584	0.0005466	ZDHH1
ENSG00000159733	-2.032	2.946e-21	1.805e-20	ZFYVE28
ENSG00000159784	3.088	0.01218	0.02082	FAM131B
ENSG00000159788	-2.27	5.1e-29	4.395e-28	RGS12
ENSG00000159792	-2.549	2.278e-24	1.606e-23	PSKH1
ENSG00000159840	1.529	1.831e-17	9.339e-17	ZYX
ENSG00000159871	-2.758	0.0005613	0.001146	LYPD5

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ENSG00000159873	1.297	5.309e-38	6.601e-37	CCDC117
ENSG00000159885	2.608	1.798e-37	2.188e-36	ZNF222
ENSG00000159921	-2.725	1.529e-72	5.237e-71	GNE
ENSG00000159958	-1.746	0.02286	0.03728	TNFRSF13C
ENSG00000160007	-1.855	7.465e-96	4.492e-94	ARHGAP35
ENSG00000160014	-1.172	4.725e-31	4.401e-30	CALM3
ENSG00000160051	-2.029	1.864e-29	1.637e-28	IQCC
ENSG00000160062	-1.466	2.059e-15	9.463e-15	ZBTB8A
ENSG00000160094	-1.599	4.569e-19	2.52e-18	ZNF362
ENSG00000160113	-3.132	1.449e-62	3.848e-61	NR2F6
ENSG00000160117	1.315	0.00212	0.004049	ANKLE1
ENSG00000160145	-1.371	0.0003949	0.0008198	KALRN
ENSG00000160161	2.306	2.747e-10	9.418e-10	CILP2
ENSG00000160179	3.285	1.691e-15	7.796e-15	ABCG1
ENSG00000160190	-1.554	1.062e-38	1.353e-37	SLC37A1
ENSG00000160194	-1.886	5.61e-37	6.679e-36	NDUFV3
ENSG00000160201	1.17	3.116e-35	3.485e-34	U2AF1
ENSG00000160208	-1.872	1.665e-69	5.285e-68	RRP1B
ENSG00000160221	-1.589	1.131e-34	1.238e-33	C21orf33
ENSG00000160223	-1.892	2.102e-28	1.761e-27	ICOSLG
ENSG00000160233	-2.381	1.351e-07	3.832e-07	LRRC3
ENSG00000160256	-1.563	2.051e-15	9.431e-15	FAM207A
ENSG00000160271	-1.616	1.035e-24	7.4e-24	RALGDS
ENSG00000160282	2.886	1.474e-06	3.835e-06	FTCD
ENSG00000160284	-1.628	2.158e-10	7.446e-10	SPATC1L
ENSG00000160285	-1.476	3.511e-22	2.239e-21	LSS
ENSG00000160298	-3.919	2.564e-29	2.241e-28	C21orf58
ENSG00000160299	-1.304	2.37e-41	3.293e-40	PCNT
ENSG00000160310	-1.014	3.503e-16	1.678e-15	PRMT2
ENSG00000160326	-1.228	1.176e-07	3.349e-07	SLC2A6
ENSG00000160360	1.485	1.52e-22	9.835e-22	GPSM1
ENSG00000160401	-1.575	2.426e-06	6.176e-06	C9orf117
ENSG00000160404	-2.973	4.107e-19	2.273e-18	TOR2A
ENSG00000160445	-1.278	2.107e-24	1.486e-23	ZER1
ENSG00000160446	-1.275	1.317e-12	5.213e-12	ZDHHC12
ENSG00000160447	-1.454	6.838e-09	2.127e-08	PKN3
ENSG00000160471	3.905	4.78e-43	7.007e-42	COX6B2
ENSG00000160472	2.792	2.554e-11	9.375e-11	TMEM190
ENSG00000160505	5.546	9.709e-09	2.985e-08	NLRP4
ENSG00000160570	2.996	3.962e-272	2.375e-269	DEDD2
ENSG00000160588	1.25	2.156e-11	7.95e-11	MPZL3
ENSG00000160593	3.556	0.002745	0.00516	AMICA1
ENSG00000160606	-3.326	7.57e-35	8.322e-34	TLCD1
ENSG00000160688	-1.536	2.756e-17	1.394e-16	FLAD1

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ENSG00000160695	1.067	1.009e-23	6.911e-23	VPS11
ENSG00000160703	-3.319	8.233e-39	1.052e-37	NLRX1
ENSG00000160710	-1.324	1.232e-51	2.315e-50	ADAR
ENSG00000160712	1.832	1.84e-26	1.422e-25	IL6R
ENSG00000160741	1.971	1.036e-19	5.894e-19	CRTC2
ENSG00000160753	-1.139	1.69e-21	1.05e-20	RUSC1
ENSG00000160767	-1.573	2.793e-21	1.712e-20	FAM189B
ENSG00000160781	-1.057	0.002376	0.004504	PAQR6
ENSG00000160785	1.346	2.871e-24	2.016e-23	SLC25A44
ENSG00000160796	-1.736	2.014e-69	6.367e-68	NBEAL2
ENSG00000160803	-1.365	3.258e-21	1.992e-20	UBQLN4
ENSG00000160813	-1.773	5.125e-12	1.957e-11	PPP1R35
ENSG00000160877	-1.389	1.838e-48	3.161e-47	NACC1
ENSG00000160908	2.456	1.552e-74	5.625e-73	ZNF394
ENSG00000160917	-2.741	1.534e-25	1.146e-24	CPSF4
ENSG00000160949	-2.683	1.198e-42	1.732e-41	TONSL
ENSG00000160957	-1.572	4.101e-29	3.552e-28	RECQL4
ENSG00000160959	-2.608	9.17e-44	1.378e-42	LRRC14
ENSG00000160972	-1.027	2.593e-18	1.383e-17	PPP1R16A
ENSG00000160991	-1.346	4.702e-10	1.586e-09	ORAI2
ENSG00000161011	1.52	5.496e-82	2.366e-80	SQSTM1
ENSG00000161021	-1.121	6.148e-38	7.617e-37	MAML1
ENSG00000161040	1.36	4.226e-13	1.721e-12	FBXL13
ENSG00000161048	-2.945	1.398e-68	4.328e-67	NAPEPLD
ENSG00000161103	-1.675	0.0264	0.04262	AC008132.13
ENSG00000161179	-2.548	4.348e-70	1.401e-68	YDJC
ENSG00000161180	1.731	0.002685	0.005056	CCDC116
ENSG00000161243	-1.077	2.106e-12	8.225e-12	FBXO27
ENSG00000161265	1.206	1.075e-13	4.538e-13	U2AF1L4
ENSG00000161267	-2.084	1.038e-66	3.085e-65	BDH1
ENSG00000161277	-1.119	0.008703	0.01521	THAP8
ENSG00000161298	2.967	6.519e-10	2.178e-09	ZNF382
ENSG00000161381	1.923	1.887e-08	5.678e-08	PLXDC1
ENSG00000161395	-1.449	7.616e-06	1.862e-05	PGAP3
ENSG00000161509	1.757	0.008553	0.01498	GRIN2C
ENSG00000161526	1.169	8.927e-35	9.8e-34	SAP30BP
ENSG00000161533	-1.015	2.002e-13	8.327e-13	ACOX1
ENSG00000161542	-1.429	3.76e-19	2.084e-18	PRPSAP1
ENSG00000161544	2.262	0.006846	0.01217	CYGB
ENSG00000161551	-2.149	2.673e-10	9.172e-10	ZNF577
ENSG00000161558	-1.351	4.107e-09	1.298e-08	TMEM143
ENSG00000161618	-1.537	5.574e-12	2.124e-11	ALDH16A1
ENSG00000161638	1.123	1.89e-18	1.014e-17	ITGA5
ENSG00000161640	3.597	6.802e-06	1.669e-05	SIGLEC11

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ENSG00000161664	-4.199	1.412e-10	4.931e-10	ASB16
ENSG00000161681	2.98	0.01713	0.02858	SHANK1
ENSG00000161692	-1.157	1.004e-17	5.191e-17	DBF4B
ENSG00000161791	-1.646	7.298e-21	4.38e-20	FMNL3
ENSG00000161800	-2.048	2.264e-84	1.047e-82	RACGAP1
ENSG00000161847	-1.54	2.007e-28	1.682e-27	RAVER1
ENSG00000161860	2.1	2.27e-08	6.794e-08	SYCE2
ENSG00000161888	-3.863	7.021e-19	3.84e-18	SPC24
ENSG00000161920	-1.051	4.212e-10	1.424e-09	MED11
ENSG00000161955	-1.131	6.944e-13	2.793e-12	TNFSF13
ENSG00000161956	-2.245	8.6e-07	2.285e-06	SENP3
ENSG00000161958	-1.975	8.83e-18	4.579e-17	FGF11
ENSG00000161980	-1.043	3.231e-07	8.893e-07	POLR3K
ENSG00000161996	-1.946	1.255e-25	9.402e-25	WDR90
ENSG00000162062	-3.357	4.572e-46	7.344e-45	C16orf59
ENSG00000162063	-3.201	4.699e-145	6.8e-143	CCNF
ENSG00000162065	-2.84	3.244e-59	7.659e-58	TBC1D24
ENSG00000162066	-1.602	4.988e-17	2.493e-16	AMDHD2
ENSG00000162073	-4.228	5.668e-154	1.002e-151	PAQR4
ENSG00000162076	-2.072	1.033e-22	6.722e-22	FLYWCH2
ENSG00000162078	-1.275	2.623e-06	6.659e-06	ZG16B
ENSG00000162104	-1.992	1.919e-30	1.743e-29	ADCY9
ENSG00000162139	-2.376	6.704e-46	1.074e-44	NEU3
ENSG00000162144	-1.103	5.788e-12	2.203e-11	CYB561A3
ENSG00000162148	2.164	3.413e-06	8.594e-06	PPP1R32
ENSG00000162194	-1.154	3.865e-21	2.355e-20	C11orf48
ENSG00000162222	-2.69	2.436e-34	2.63e-33	TTC9C
ENSG00000162227	-1.471	1.415e-08	4.291e-08	TAF6L
ENSG00000162231	1.677	3.172e-97	1.965e-95	NXF1
ENSG00000162241	-1.399	4.169e-08	1.224e-07	SLC25A45
ENSG00000162337	-1.904	1.964e-60	4.878e-59	LRP5
ENSG00000162341	-1.594	1.354e-08	4.113e-08	TPCN2
ENSG00000162344	2.839	5.237e-10	1.76e-09	FGF19
ENSG00000162377	-1.903	6.177e-32	6.007e-31	SELRC1
ENSG00000162378	-1.863	2.507e-58	5.725e-57	ZYG11B
ENSG00000162385	1.027	1.785e-13	7.449e-13	MAGOH
ENSG00000162390	-1.728	1.923e-25	1.427e-24	ACOT11
ENSG00000162396	-1.13	6.407e-08	1.856e-07	PARS2
ENSG00000162407	1.05	8.164e-13	3.272e-12	PPAP2B
ENSG00000162413	1.361	1.421e-11	5.289e-11	KLHL21
ENSG00000162415	-2.687	4.761e-14	2.045e-13	ZSWIM5
ENSG00000162419	-1.011	5.765e-06	1.424e-05	GMEB1
ENSG00000162433	-1.08	1.205e-33	1.254e-32	AK4
ENSG00000162437	-1.241	2.223e-06	5.677e-06	RAVER2

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ENSG00000162482	-2.343	3.541e-05	8.161e-05	AKR7A3
ENSG00000162496	-2.068	2.473e-45	3.888e-44	DHRS3
ENSG00000162512	-1.41	4.27e-24	2.97e-23	SDC3
ENSG00000162521	-1.067	2.174e-19	1.216e-18	RBBP4
ENSG00000162522	-1.629	2.604e-94	1.528e-92	KIAA1522
ENSG00000162526	1.362	0.004541	0.008257	TSSK3
ENSG00000162543	-3.377	1.372e-32	1.373e-31	UBXN10
ENSG00000162552	-1.41	0.01282	0.02184	WNT4
ENSG00000162572	1.398	0.008331	0.01461	SCNN1D
ENSG00000162585	-1.166	1.347e-12	5.328e-12	C1orf86
ENSG00000162591	-1.569	1.518e-07	4.289e-07	MEGF6
ENSG00000162595	3.949	0.002279	0.004331	DIRAS3
ENSG00000162599	-2.384	4.301e-22	2.731e-21	NFIA
ENSG00000162600	-1.293	1.831e-21	1.136e-20	OMA1
ENSG00000162607	-1.744	4.182e-82	1.805e-80	USP1
ENSG00000162614	-1.452	3.434e-07	9.432e-07	NEXN
ENSG00000162616	2.177	3.01e-71	9.965e-70	DNAJB4
ENSG00000162620	-2.709	0.001879	0.003615	LRRIQ3
ENSG00000162636	-2.719	6.707e-30	5.972e-29	FAM102B
ENSG00000162639	-2.764	7.533e-18	3.92e-17	HENMT1
ENSG00000162642	2.09	4.136e-86	1.995e-84	C1orf52
ENSG00000162688	-1.363	5.916e-41	8.099e-40	AGL
ENSG00000162694	-2.252	9.089e-37	1.07e-35	EXTL2
ENSG00000162702	1.462	3.767e-27	2.995e-26	ZNF281
ENSG00000162714	-1.279	2.836e-19	1.581e-18	ZNF496
ENSG00000162733	3.774	2.357e-62	6.221e-61	DDR2
ENSG00000162734	1.592	2.375e-34	2.569e-33	PEA15
ENSG00000162738	-1.859	6.448e-35	7.112e-34	VANGL2
ENSG00000162755	-2.087	5.427e-05	0.0001231	KLHDC9
ENSG00000162757	-1.829	1.655e-11	6.136e-11	C1orf74
ENSG00000162769	-1.126	3.321e-12	1.28e-11	FLVCR1
ENSG00000162772	6.965	2.755e-242	1.445e-239	ATF3
ENSG00000162777	-1.901	4.36e-52	8.298e-51	DENND2D
ENSG00000162783	4.06	1.201e-70	3.922e-69	IER5
ENSG00000162817	-2.224	3.296e-27	2.628e-26	C1orf115
ENSG00000162836	-1.687	1.254e-30	1.149e-29	ACP6
ENSG00000162852	1.749	6.088e-69	1.896e-67	CNST
ENSG00000162888	-2.278	0.01261	0.02152	C1orf147
ENSG00000162892	3.436	9.296e-05	0.0002061	IL24
ENSG00000162894	1.155	0.01486	0.02506	FAIM3
ENSG00000162897	4.276	6.08e-05	0.0001373	FCAMR
ENSG00000162910	-1.017	1.533e-05	3.644e-05	MRPL55
ENSG00000162923	1.268	2.851e-56	6.089e-55	WDR26
ENSG00000162928	-3.442	1.361e-144	1.937e-142	PEX13

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ENSG00000162929	-1.524	3.754e-24	2.617e-23	KIAA1841
ENSG00000162971	-1.309	4.225e-20	2.448e-19	TYW5
ENSG00000162972	-1.245	9.882e-11	3.484e-10	C2orf47
ENSG00000162976	-1.007	4.099e-05	9.398e-05	PQLC3
ENSG00000162981	-3.291	0.003005	0.005613	FAM84A
ENSG00000162998	1.717	0.001243	0.00244	FRZB
ENSG00000162999	-1.542	0.0007998	0.001603	DUSP19
ENSG00000163006	-2.472	5.453e-21	3.3e-20	CCDC138
ENSG00000163009	-1.224	0.0004274	0.0008837	C2orf48
ENSG00000163013	-1.376	1.736e-23	1.173e-22	FBXO41
ENSG00000163029	-1.038	1.461e-08	4.425e-08	SMC6
ENSG00000163050	-1.61	1.874e-37	2.278e-36	ADCK3
ENSG00000163053	-1.303	0.01788	0.02975	SLC16A14
ENSG00000163069	-1.276	0.0001161	0.0002547	SGCB
ENSG00000163072	-2.698	5.16e-05	0.0001172	NOSTRIN
ENSG00000163082	1.627	4.053e-21	2.467e-20	SGPP2
ENSG00000163083	-3.089	1.008e-146	1.484e-144	INHBB
ENSG00000163092	2.902	0.00448	0.008155	XIRP2
ENSG00000163093	-2.411	1.034e-09	3.418e-09	BBS5
ENSG00000163110	1.509	1.548e-92	8.722e-91	PDLIM5
ENSG00000163132	3.188	5.302e-09	1.663e-08	MSX1
ENSG00000163138	-1.109	9.556e-11	3.371e-10	PACRGL
ENSG00000163141	-1.729	0.003976	0.007294	BNIP1
ENSG00000163159	-1.578	1.471e-28	1.241e-27	VPS72
ENSG00000163171	-1.338	4.45e-18	2.345e-17	CDC42EP3
ENSG00000163214	-1.83	1.68e-43	2.506e-42	DHX57
ENSG00000163219	6.573	2.9e-13	1.194e-12	ARHGAP25
ENSG00000163251	-2.587	2.282e-41	3.176e-40	FZD5
ENSG00000163257	-1.889	8.047e-60	1.949e-58	DCAF16
ENSG00000163328	-1.337	0.01417	0.02399	GPR155
ENSG00000163346	-1.65	7.693e-18	4e-17	PBXIP1
ENSG00000163352	2.773	0.01738	0.02897	LENEP
ENSG00000163359	4.407	2.051e-12	8.015e-12	COL6A3
ENSG00000163374	1.208	1.662e-15	7.662e-15	YY1AP1
ENSG00000163376	4.534	1.608e-57	3.588e-56	KBTD8
ENSG00000163389	-2.101	4.095e-47	6.84e-46	POGLUT1
ENSG00000163395	2.058	4.132e-42	5.893e-41	IGFN1
ENSG00000163406	-1.398	0.005992	0.01073	SLC15A2
ENSG00000163428	-1.746	1.783e-73	6.26e-72	LRRC58
ENSG00000163430	-1.06	9.985e-19	5.429e-18	FSTL1
ENSG00000163435	-1.224	2.576e-14	1.122e-13	ELF3
ENSG00000163462	-2.882	1.371e-21	8.535e-21	TRIM46
ENSG00000163464	4.458	2.633e-05	6.131e-05	CXCR1
ENSG00000163467	1.374	4.811e-08	1.406e-07	TSACC

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ENSG00000163479	1.045	3.851e-31	3.611e-30	SSR2
ENSG00000163482	-1.638	1.851e-30	1.682e-29	STK36
ENSG00000163485	-5.607	5.062e-47	8.421e-46	ADORA1
ENSG00000163492	3.127	0.02126	0.03488	CCDC141
ENSG00000163510	1.865	1.1e-25	8.272e-25	CWC22
ENSG00000163512	1.228	1.2e-23	8.177e-23	AZI2
ENSG00000163513	-2.426	1.311e-68	4.068e-67	TGFBR2
ENSG00000163516	-2.035	1.538e-47	2.586e-46	ANKZF1
ENSG00000163517	-1.211	4.431e-11	1.598e-10	HDAC11
ENSG00000163521	-1.064	0.000194	0.0004156	GLB1L
ENSG00000163528	-1.718	5.525e-30	4.926e-29	CHCHD4
ENSG00000163531	1.71	0.01422	0.02407	NFASC
ENSG00000163535	-1.977	1.349e-27	1.09e-26	SGOL2
ENSG00000163545	-1.496	6.939e-29	5.951e-28	NUAK2
ENSG00000163577	1.013	1.427e-20	8.442e-20	EIF5A2
ENSG00000163590	-2.496	3.591e-28	2.972e-27	PPM1L
ENSG00000163596	-1.323	0.002317	0.004397	ICA1L
ENSG00000163602	1.754	8.985e-39	1.147e-37	RYBP
ENSG00000163606	3.495	3.549e-19	1.971e-18	CD200R1
ENSG00000163611	-1.326	2.747e-17	1.39e-16	SPICE1
ENSG00000163623	1.179	0.0009872	0.00196	NKX6-1
ENSG00000163626	-1.729	8.918e-20	5.09e-19	COX18
ENSG00000163629	-2.022	4.365e-23	2.884e-22	PTPN13
ENSG00000163635	-1.133	1.982e-09	6.408e-09	ATXN7
ENSG00000163636	1.103	9.032e-15	4.03e-14	PSMD6
ENSG00000163660	1.109	1.075e-40	1.454e-39	CCNL1
ENSG00000163686	-1.163	2.538e-05	5.917e-05	ABHD6
ENSG00000163687	4.373	3.032e-07	8.363e-07	DNASE1L3
ENSG00000163694	-1.378	2.338e-57	5.198e-56	RBM47
ENSG00000163701	-1.865	5.681e-20	3.271e-19	IL17RE
ENSG00000163702	-1.034	1.504e-07	4.249e-07	IL17RC
ENSG00000163704	1.224	0.0001973	0.0004224	PRRT3
ENSG00000163710	-1.284	1.465e-05	3.488e-05	PCOLCE2
ENSG00000163719	1.223	5.196e-16	2.463e-15	MTMR14
ENSG00000163734	1.525	0.03095	0.04931	CXCL3
ENSG00000163739	4.349	5.633e-84	2.598e-82	CXCL1
ENSG00000163755	-1.492	4.801e-17	2.402e-16	HPS3
ENSG00000163795	1.297	4.58e-19	2.525e-18	ZNF513
ENSG00000163806	2.321	1.971e-17	1.003e-16	SPDYA
ENSG00000163808	-2.781	9.18e-75	3.35e-73	KIF15
ENSG00000163820	-2.049	1.456e-51	2.725e-50	FYCO1
ENSG00000163832	-1.662	1.078e-08	3.299e-08	ELP6
ENSG00000163840	-2.07	2.195e-98	1.375e-96	DTX3L
ENSG00000163864	-3.331	0.002793	0.005242	NMNAT3

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ENSG00000163866	-2.513	3.585e-42	5.117e-41	SMIM12
ENSG00000163872	-1.718	1.606e-59	3.867e-58	YEATS2
ENSG00000163874	2.842	1.404e-175	3.273e-173	ZC3H12A
ENSG00000163877	2.914	4.192e-120	4.188e-118	SNIP1
ENSG00000163879	4.173	1.951e-08	5.866e-08	DNALI1
ENSG00000163888	-1.308	0.001596	0.003096	CAMK2N2
ENSG00000163898	-1.567	1.387e-28	1.174e-27	LIPH
ENSG00000163900	-2.596	1.903e-39	2.475e-38	TMEM41A
ENSG00000163909	-2.339	2.354e-06	6e-06	HEYL
ENSG00000163915	2.003	0.002321	0.004405	C3orf65
ENSG00000163918	-2.04	3.99e-66	1.163e-64	RFC4
ENSG00000163923	-1.483	1.646e-09	5.357e-09	RPL39L
ENSG00000163933	-1.312	3.671e-10	1.247e-09	RFT1
ENSG00000163935	-2.029	1.345e-57	3.005e-56	SFMBT1
ENSG00000163958	4.452	1.988e-05	4.683e-05	ZDHC19
ENSG00000163959	2.538	1.448e-21	9.003e-21	SLC51A
ENSG00000163964	-1.23	8.331e-19	4.539e-18	PIGX
ENSG00000164002	-3.222	3.542e-30	3.177e-29	EXO5
ENSG00000164031	-1.379	3.133e-23	2.092e-22	DNAJB14
ENSG00000164038	-1.035	1.198e-05	2.874e-05	SLC9B2
ENSG00000164045	-3.574	1.816e-58	4.165e-57	CDC25A
ENSG00000164048	-2.15	3.37e-24	2.357e-23	ZNF589
ENSG00000164050	-1.081	7.315e-16	3.44e-15	PLXNB1
ENSG00000164051	-2.442	1.032e-36	1.211e-35	CCDC51
ENSG00000164053	-3.33	1.744e-44	2.67e-43	ATRIP
ENSG00000164056	-3.218	5.094e-17	2.544e-16	SPRY1
ENSG00000164061	-1.98	1.03e-09	3.405e-09	BSN
ENSG00000164066	-1.29	3.613e-13	1.479e-12	INTU
ENSG00000164070	1.416	1.118e-25	8.402e-25	HSPA4L
ENSG00000164073	-1.738	1.273e-29	1.124e-28	MFSB8
ENSG00000164074	-1.731	2.51e-15	1.148e-14	C4orf29
ENSG00000164077	-1.095	2.055e-05	4.832e-05	MON1A
ENSG00000164078	-2.044	7.494e-33	7.578e-32	MST1R
ENSG00000164080	-1.217	1.331e-13	5.595e-13	RAD54L2
ENSG00000164081	-1.187	7.348e-12	2.777e-11	TEX264
ENSG00000164086	-1.864	3.023e-14	1.31e-13	DUSP7
ENSG00000164087	-1.978	1.855e-17	9.453e-17	POC1A
ENSG00000164099	-1.452	3.638e-06	9.132e-06	PRSS12
ENSG00000164104	-2.917	1.242e-118	1.185e-116	HMGB2
ENSG00000164109	-2.002	1.366e-77	5.358e-76	MAD2L1
ENSG00000164111	1.217	1.606e-33	1.662e-32	ANXA5
ENSG00000164114	-2.694	7.972e-15	3.567e-14	MAP9
ENSG00000164116	-2.329	0.01194	0.02044	GUCY1A3
ENSG00000164122	5.577	3.392e-09	1.079e-08	ASB5

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ENSG00000164124	-2.022	2.143e-25	1.587e-24	TMEM144
ENSG00000164125	-2.84	0.001574	0.003055	FAM198B
ENSG00000164142	1.554	7.437e-31	6.886e-30	FAM160A1
ENSG00000164161	2.098	0.009665	0.01678	HHIP
ENSG00000164167	-1.462	4.164e-13	1.697e-12	LSM6
ENSG00000164171	1.605	3.222e-59	7.617e-58	ITGA2
ENSG00000164211	1.408	3.951e-08	1.163e-07	STARD4
ENSG00000164220	2.935	1.105e-32	1.11e-31	F2RL2
ENSG00000164221	-1.008	4.395e-06	1.096e-05	CCDC112
ENSG00000164241	-1.592	6.817e-21	4.103e-20	C5orf63
ENSG00000164251	1.06	5.185e-28	4.275e-27	F2RL1
ENSG00000164252	-2.031	1.047e-58	2.418e-57	AGGF1
ENSG00000164266	6.464	2.718e-12	1.054e-11	SPINK1
ENSG00000164283	3.01	0.003907	0.007175	ESM1
ENSG00000164291	-1.885	9.611e-13	3.838e-12	ARSK
ENSG00000164294	-1.944	2.989e-31	2.814e-30	GPX8
ENSG00000164306	-2.127	3.688e-15	1.676e-14	PRIMPOL
ENSG00000164318	3.509	0.007316	0.01295	EGFLAM
ENSG00000164323	-1.309	9.425e-27	7.372e-26	KIAA1430
ENSG00000164327	1.553	6.391e-64	1.744e-62	RICTOR
ENSG00000164342	-3.501	2.432e-35	2.73e-34	TLR3
ENSG00000164362	-1.064	0.009766	0.01695	TERT
ENSG00000164366	-1.812	5.328e-31	4.958e-30	CCDC127
ENSG00000164379	-2.753	1.69e-77	6.599e-76	FOXQ1
ENSG00000164400	4.397	5.156e-16	2.446e-15	CSF2
ENSG00000164402	-1.513	1.177e-50	2.157e-49	SEPT8
ENSG00000164403	-2.642	3.976e-45	6.22e-44	SHROOM1
ENSG00000164404	6.681	2.493e-07	6.921e-07	GDF9
ENSG00000164406	2.843	1.168e-20	6.943e-20	LEAP2
ENSG00000164414	-2.07	8.045e-27	6.313e-26	SLC35A1
ENSG00000164463	3.386	2.436e-192	7.435e-190	CREBRF
ENSG00000164465	1.087	1.025e-13	4.333e-13	DCBLD1
ENSG00000164466	-1.195	1.795e-46	2.923e-45	SFXN1
ENSG00000164509	2.804	0.03087	0.0492	IL31RA
ENSG00000164543	1.329	4.816e-46	7.728e-45	STK17A
ENSG00000164556	5.281	1.435e-07	4.062e-07	FAM183B
ENSG00000164574	-1.344	1.859e-67	5.642e-66	GALNT10
ENSG00000164603	1.762	2.194e-37	2.658e-36	C7orf60
ENSG00000164609	2.172	9.383e-154	1.641e-151	SLU7
ENSG00000164610	-1.332	7.043e-06	1.726e-05	RP9
ENSG00000164611	-1.388	1.544e-27	1.246e-26	PTTG1
ENSG00000164626	-4.646	4.368e-54	8.74e-53	KCNK5
ENSG00000164647	-2.145	4.436e-21	2.696e-20	STEAP1
ENSG00000164649	-1.888	1.381e-58	3.181e-57	CDC47L

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ENSG00000164654	-1.983	2.191e-41	3.055e-40	MIOS
ENSG00000164659	-1.708	2.927e-16	1.407e-15	KIAA1324L
ENSG00000164674	-1.035	0.0005303	0.001085	SYTL3
ENSG00000164675	2.574	2.13e-06	5.444e-06	IQUB
ENSG00000164683	1.662	1.336e-07	3.793e-07	HEY1
ENSG00000164684	-2.697	1.036e-179	2.52e-177	ZNF704
ENSG00000164715	1.159	8.626e-53	1.672e-51	LMTK2
ENSG00000164742	-1.843	4.307e-06	1.075e-05	ADCY1
ENSG00000164743	-2.823	0.0002963	0.0006236	C8orf48
ENSG00000164746	2.801	3.242e-08	9.604e-08	C7orf57
ENSG00000164751	-1.812	1.058e-32	1.062e-31	PEX2
ENSG00000164764	-1.741	0.001187	0.002335	SBSPON
ENSG00000164776	1.282	2.593e-05	6.043e-05	PHKG1
ENSG00000164794	-2.166	0.003194	0.005942	KCNV1
ENSG00000164815	-1.461	1.17e-33	1.22e-32	ORC5
ENSG00000164818	-1.449	8.132e-50	1.455e-48	HEATR2
ENSG00000164823	1.087	3.053e-28	2.533e-27	OSGIN2
ENSG00000164850	1.858	5.457e-07	1.471e-06	GPER1
ENSG00000164855	-1.072	6.497e-18	3.395e-17	TMEM184A
ENSG00000164867	2.392	2.464e-11	9.053e-11	NOS3
ENSG00000164871	2.971	0.0183	0.03039	SPAG11B
ENSG00000164877	-1.065	3.369e-12	1.298e-11	MICALL2
ENSG00000164896	-1.693	2.959e-51	5.488e-50	FASTK
ENSG00000164897	-2.472	5.815e-80	2.381e-78	TMUB1
ENSG00000164920	-2.559	5.651e-43	8.248e-42	OSR2
ENSG00000164930	-1.747	4.085e-78	1.61e-76	FZD6
ENSG00000164949	4.783	1.282e-117	1.183e-115	GEM
ENSG00000164967	-3.347	4.958e-19	2.731e-18	RPP25L
ENSG00000164970	2.503	1.233e-147	1.865e-145	FAM219A
ENSG00000164972	4.173	9.901e-10	3.277e-09	C9orf24
ENSG00000164976	-1.017	6.027e-11	2.157e-10	KIAA1161
ENSG00000164985	-1.696	4.856e-15	2.193e-14	PSIP1
ENSG00000164989	-1.596	8.275e-05	0.0001841	CCDC171
ENSG00000165006	1.087	1.189e-31	1.144e-30	UBAP1
ENSG00000165025	-2.303	1.489e-48	2.579e-47	SYK
ENSG00000165029	1.421	1.708e-14	7.5e-14	ABCA1
ENSG00000165060	-1.868	1.368e-19	7.747e-19	FXN
ENSG00000165102	-1.395	4.848e-27	3.833e-26	HGSNAT
ENSG00000165105	-1.009	2.535e-20	1.485e-19	RASEF
ENSG00000165115	-1.636	1.256e-10	4.403e-10	KIF27
ENSG00000165118	-1.102	2.194e-09	7.066e-09	C9orf64
ENSG00000165125	-1.929	3.557e-24	2.483e-23	TRPV6
ENSG00000165138	-2.054	6.99e-84	3.215e-82	ANKS6
ENSG00000165156	-1.275	3.96e-21	2.411e-20	ZHX1

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ENSG00000165168	-1.34	0.02153	0.0353	CYBB
ENSG00000165181	1.375	0.003517	0.0065	C9orf84
ENSG00000165185	-2.223	1.45e-44	2.229e-43	KIAA1958
ENSG00000165195	3.325	2.322e-132	2.804e-130	PIGA
ENSG00000165215	-1.691	7.445e-10	2.478e-09	CLDN3
ENSG00000165238	-2.071	3.548e-65	1.013e-63	WNK2
ENSG00000165244	-3.133	5.316e-80	2.182e-78	ZNF367
ENSG00000165275	-1.053	6.922e-08	2.002e-07	TRMT10B
ENSG00000165300	-3.56	1.557e-05	3.699e-05	SLITRK5
ENSG00000165304	-1.481	1.311e-52	2.53e-51	MELK
ENSG00000165376	2.433	0.002191	0.004175	CLDN2
ENSG00000165388	-6.172	4.422e-23	2.921e-22	ZNF488
ENSG00000165389	-1.355	4.328e-20	2.506e-19	SPTSSA
ENSG00000165424	-1.648	2.091e-06	5.353e-06	ZCCHC24
ENSG00000165458	-1.077	2.755e-31	2.604e-30	INPPL1
ENSG00000165474	-2.759	1.896e-17	9.654e-17	GJB2
ENSG00000165480	-2.113	5.131e-13	2.079e-12	SKA3
ENSG00000165495	5.197	2.432e-07	6.757e-07	PKNOX2
ENSG00000165501	-1.605	2.699e-28	2.246e-27	LRR1
ENSG00000165506	-2.863	2.614e-66	7.698e-65	DNAAF2
ENSG00000165507	-1.988	1.198e-14	5.294e-14	C10orf10
ENSG00000165512	-3.691	1.98e-187	5.449e-185	ZNF22
ENSG00000165516	-1.39	6.225e-26	4.724e-25	KLHDC2
ENSG00000165521	-1.555	1.596e-13	6.685e-13	EML5
ENSG00000165527	-1.693	2.535e-51	4.722e-50	ARF6
ENSG00000165533	-2.149	3.471e-44	5.272e-43	TTC8
ENSG00000165572	-2.838	5.92e-41	8.099e-40	KBTD6
ENSG00000165606	4.224	2.466e-08	7.364e-08	DRGX
ENSG00000165643	2.901	0.01131	0.01943	SOHLH1
ENSG00000165644	-1.868	4.217e-25	3.067e-24	COMTD1
ENSG00000165655	-2.389	7.033e-34	7.42e-33	ZNF503
ENSG00000165671	-2.064	8.205e-110	6.436e-108	NSD1
ENSG00000165689	-2.096	3.433e-28	2.843e-27	SDCCAG3
ENSG00000165695	-1.257	0.01129	0.0194	AK8
ENSG00000165699	1.326	1.211e-37	1.487e-36	TSC1
ENSG00000165714	-1.723	2.611e-11	9.574e-11	LOH12CR1
ENSG00000165716	-2.409	9.649e-27	7.544e-26	FAM69B
ENSG00000165724	-2.329	7.578e-48	1.281e-46	ZMYND19
ENSG00000165730	-4.085	2.94e-35	3.292e-34	STOX1
ENSG00000165732	1.186	5.549e-41	7.628e-40	DDX21
ENSG00000165752	-1.111	3.994e-06	9.996e-06	STK32C
ENSG00000165757	-2.264	1.056e-119	1.036e-117	KIAA1462
ENSG00000165792	-1.336	2.874e-15	1.312e-14	METTL17
ENSG00000165795	-1.558	8.795e-10	2.917e-09	NDRG2

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ENSG00000165801	-2.502	5.09e-15	2.294e-14	ARHGEF40
ENSG00000165805	3.323	0.005393	0.009728	C12orf50
ENSG00000165807	2.278	0.02048	0.03371	PPP1R36
ENSG00000165810	-1.676	7.419e-25	5.336e-24	BTNL9
ENSG00000165813	1.602	1.637e-18	8.819e-18	C10orf118
ENSG00000165837	1.696	0.001046	0.002071	FAM194B
ENSG00000165879	-2.022	0.0008038	0.00161	FRAT1
ENSG00000165887	-1.502	1.497e-16	7.283e-16	ANKRD2
ENSG00000165891	-1.968	5.737e-27	4.528e-26	E2F7
ENSG00000165905	-2.373	3.958e-09	1.252e-08	GYLTL1B
ENSG00000165912	-2.974	9.442e-93	5.354e-91	PACSIN3
ENSG00000165915	-1.48	8.35e-21	4.997e-20	SLC39A13
ENSG00000165917	-1.177	0.02344	0.03816	RAPSN
ENSG00000165923	-1.934	5.579e-05	0.0001264	AGBL2
ENSG00000165934	-1.491	7.482e-47	1.239e-45	CPSF2
ENSG00000165983	-1.315	3.139e-18	1.666e-17	PTER
ENSG00000165985	-1.049	0.02164	0.03546	C1QL3
ENSG00000165997	2.422	2.284e-74	8.228e-73	ARL5B
ENSG00000166002	-2.082	4.276e-07	1.164e-06	SMCO4
ENSG00000166025	-1.36	3.741e-53	7.318e-52	AMOTL1
ENSG00000166046	2.928	2.887e-57	6.393e-56	TCP11L2
ENSG00000166068	-1.187	2.867e-18	1.526e-17	SPRED1
ENSG00000166086	-1.378	0.0006952	0.001402	JAM3
ENSG00000166106	-5.601	7.509e-10	2.499e-09	ADAMTS15
ENSG00000166130	-1.716	3.069e-16	1.473e-15	IKBIP
ENSG00000166133	-1.549	3.069e-07	8.456e-07	RPUSD2
ENSG00000166145	-1.402	6.483e-44	9.804e-43	SPINT1
ENSG00000166159	5.874	6.32e-09	1.972e-08	LRTM2
ENSG00000166166	-1.373	2.111e-19	1.182e-18	TRMT61A
ENSG00000166169	-1.921	6.102e-27	4.809e-26	POLL
ENSG00000166170	-1.533	1.584e-47	2.661e-46	BAG5
ENSG00000166188	-1.977	1.098e-29	9.712e-29	ZNF319
ENSG00000166189	-4.342	3.991e-69	1.245e-67	HPS6
ENSG00000166200	1.247	3.877e-34	4.148e-33	COPS2
ENSG00000166206	-1.871	9.562e-19	5.203e-18	GABRB3
ENSG00000166225	1.012	1.61e-14	7.075e-14	FRS2
ENSG00000166257	2.343	0.003367	0.006238	SCN3B
ENSG00000166260	-1.166	1.291e-11	4.814e-11	COX11
ENSG00000166263	-1.033	1.047e-09	3.457e-09	STXBP4
ENSG00000166265	4.337	0.0002112	0.0004511	CYYR1
ENSG00000166278	1.885	1.468e-05	3.495e-05	C2
ENSG00000166311	-2.507	2.623e-24	1.845e-23	SMPD1
ENSG00000166317	1.702	0.006089	0.0109	SYNPO2L
ENSG00000166321	1.473	1.374e-11	5.113e-11	NUDT13

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ENSG00000166343	-3.157	7.627e-06	1.864e-05	MSS51
ENSG00000166348	-1.506	1.708e-19	9.632e-19	USP54
ENSG00000166359	-2.137	0.005725	0.01028	WDR88
ENSG00000166387	-1.094	0.0001581	0.0003417	PPFIBP2
ENSG00000166391	4.155	0.0001629	0.0003515	MOGAT2
ENSG00000166396	-1.49	7.509e-20	4.305e-19	SERPINB7
ENSG00000166401	1.754	1.418e-23	9.621e-23	SERPINB8
ENSG00000166436	-2.158	1.786e-32	1.779e-31	TRIM66
ENSG00000166444	-2.209	1.466e-30	1.339e-29	ST5
ENSG00000166446	-1.429	8.581e-07	2.28e-06	CDYL2
ENSG00000166448	3.296	0.01023	0.0177	TMEM130
ENSG00000166450	-2.668	2.629e-51	4.893e-50	PRTG
ENSG00000166452	-1.234	1.698e-09	5.515e-09	AKIP1
ENSG00000166455	1.055	1.174e-05	2.822e-05	C16orf46
ENSG00000166471	1.743	1.031e-41	1.452e-40	TMEM41B
ENSG00000166478	2.108	1.31e-44	2.019e-43	ZNF143
ENSG00000166484	-1.06	2.486e-05	5.802e-05	MAPK7
ENSG00000166507	-3.704	7.662e-34	8.058e-33	NDST2
ENSG00000166510	-1.242	3.602e-08	1.063e-07	CCDC68
ENSG00000166529	-1.892	9.13e-15	4.072e-14	ZSCAN21
ENSG00000166532	-1.202	2.936e-11	1.072e-10	RIMKLB
ENSG00000166535	2.447	0.004392	0.00801	A2ML1
ENSG00000166548	-3.243	6.875e-38	8.505e-37	TK2
ENSG00000166592	5.701	4.149e-45	6.479e-44	RRAD
ENSG00000166598	1.051	8.523e-29	7.285e-28	HSP90B1
ENSG00000166670	11.08	7.082e-39	9.088e-38	MMP10
ENSG00000166676	5.167	3.046e-66	8.956e-65	TVP23A
ENSG00000166685	-1.71	5.477e-24	3.798e-23	COG1
ENSG00000166704	-2.137	9.803e-27	7.657e-26	ZNF606
ENSG00000166707	2.66	0.01573	0.02643	ZCCHC18
ENSG00000166747	1.098	8.226e-42	1.165e-40	AP1G1
ENSG00000166793	4.069	2.896e-20	1.689e-19	YPEL4
ENSG00000166797	-1.351	1.23e-15	5.722e-15	FAM96A
ENSG00000166800	1.988	1.754e-05	4.148e-05	LDHAL6A
ENSG00000166801	-2.699	5.538e-122	5.738e-120	FAM111A
ENSG00000166813	-3.226	4.419e-30	3.954e-29	KIF7
ENSG00000166822	-1.38	1.908e-25	1.417e-24	TMEM170A
ENSG00000166823	-4.854	3.3e-07	9.077e-07	MESP1
ENSG00000166825	-1.585	1.207e-20	7.168e-20	ANPEP
ENSG00000166831	-1.892	0.004783	0.008679	RBPMS2
ENSG00000166845	-1.463	5.358e-18	2.813e-17	C18orf54
ENSG00000166851	-3.506	4.068e-218	1.846e-215	PLK1
ENSG00000166860	-4.546	3.284e-80	1.354e-78	ZBTB39
ENSG00000166881	-1.051	7.618e-26	5.76e-25	TMEM194A

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ENSG00000166888	-1.216	8.971e-37	1.057e-35	STAT6
ENSG00000166896	-1.757	1.546e-10	5.383e-10	XRCC6BP1
ENSG00000166897	-2.258	5.656e-41	7.77e-40	ELFN2
ENSG00000166900	1.768	1.51e-83	6.851e-82	STX3
ENSG00000166902	-2.141	3.518e-30	3.159e-29	MRPL16
ENSG00000166922	3.724	1.488e-17	7.615e-17	SCG5
ENSG00000166938	-2.546	2.025e-69	6.389e-68	DIS3L
ENSG00000166949	-1.742	7.902e-62	2.038e-60	SMAD3
ENSG00000166965	-2.085	1.943e-15	8.944e-15	RCCD1
ENSG00000166986	1.223	1.037e-31	1.001e-30	MARS
ENSG00000166997	-1.663	1.684e-07	4.734e-07	CNPY4
ENSG00000167034	1.107	1.318e-11	4.911e-11	NKX3-1
ENSG00000167037	-2.067	1.012e-08	3.107e-08	SGSM1
ENSG00000167065	-1.848	1.22e-14	5.394e-14	DUSP18
ENSG00000167074	-1.817	1.266e-14	5.587e-14	TEF
ENSG00000167100	3.384	0.000148	0.0003209	SAMD14
ENSG00000167103	2.832	8.691e-13	3.477e-12	PIP5KL1
ENSG00000167105	1.853	1.309e-27	1.059e-26	TMEM92
ENSG00000167112	-1.588	3.921e-13	1.602e-12	TRUB2
ENSG00000167113	-1.118	2.925e-13	1.204e-12	COQ4
ENSG00000167114	-1.9	2.834e-38	3.548e-37	SLC27A4
ENSG00000167123	-1.26	1.334e-23	9.067e-23	CERCAM
ENSG00000167136	-2.008	3.1e-10	1.059e-09	ENDOG
ENSG00000167165	-1.245	5.119e-43	7.484e-42	UGT1A6
ENSG00000167182	1.143	6.351e-05	0.0001431	SP2
ENSG00000167183	-5.214	2.999e-26	2.303e-25	PRR15L
ENSG00000167191	-2.012	3.073e-51	5.693e-50	GPRC5B
ENSG00000167195	5.527	1.073e-08	3.286e-08	GOLGA6C
ENSG00000167196	-1.532	6.277e-22	3.953e-21	FBXO22
ENSG00000167202	-1.584	3.387e-36	3.913e-35	TBC1D2B
ENSG00000167207	2.188	4.955e-05	0.0001127	NOD2
ENSG00000167257	-1.854	4.008e-26	3.063e-25	RNF214
ENSG00000167264	-1.211	5.164e-16	2.448e-15	DUS2
ENSG00000167272	-1.82	4.731e-18	2.49e-17	POP5
ENSG00000167281	1.956	0.02328	0.03793	RBFOX3
ENSG00000167333	-1.385	1.385e-14	6.101e-14	TRIM68
ENSG00000167363	-1.566	2.39e-05	5.589e-05	FN3K
ENSG00000167383	2.64	4.16e-112	3.39e-110	ZNF229
ENSG00000167397	-1.09	2.181e-13	9.056e-13	VKORC1
ENSG00000167476	1.564	5.67e-05	0.0001284	JSRP1
ENSG00000167513	-2.235	2.85e-69	8.926e-68	CDT1
ENSG00000167522	2.235	1.569e-38	1.982e-37	ANKRD11
ENSG00000167523	-2.193	4.462e-22	2.83e-21	SPATA33
ENSG00000167524	-1.308	3.062e-09	9.765e-09	SGK494

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ENSG00000167535	-2.469	1.394e-28	1.18e-27	CACNB3
ENSG00000167536	-2.314	5.859e-07	1.576e-06	DHRS13
ENSG00000167543	-1.625	5.743e-16	2.713e-15	TP53I13
ENSG00000167549	-2.222	8.411e-24	5.782e-23	CORO6
ENSG00000167565	1.419	1.353e-16	6.607e-16	SERTAD3
ENSG00000167604	-1.301	1.509e-06	3.916e-06	NFKBID
ENSG00000167654	4.23	8.621e-05	0.0001917	ATCAY
ENSG00000167656	-1.751	1.707e-22	1.101e-21	LY6D
ENSG00000167670	-2.76	4.066e-58	9.224e-57	CHAF1A
ENSG00000167674	-1.256	6.155e-20	3.539e-19	HDGFRP2
ENSG00000167695	-1.946	1.632e-40	2.202e-39	FAM57A
ENSG00000167700	-1.613	5.951e-08	1.727e-07	MFSD3
ENSG00000167702	-1.464	5.963e-35	6.589e-34	KIFC2
ENSG00000167703	-1.887	4.023e-19	2.228e-18	SLC43A2
ENSG00000167705	-1.464	1.028e-05	2.484e-05	RILP
ENSG00000167723	4.21	5.367e-90	2.815e-88	TRPV3
ENSG00000167747	-1.795	8.866e-37	1.046e-35	C19orf48
ENSG00000167759	2.702	0.02884	0.04618	KLK13
ENSG00000167767	-1.942	2.582e-99	1.641e-97	KRT80
ENSG00000167771	-1.991	0.002584	0.004875	RCOR2
ENSG00000167775	-1.179	8.226e-09	2.546e-08	CD320
ENSG00000167799	-1.528	1.478e-06	3.843e-06	NUDT8
ENSG00000167807	-2.989	0.000169	0.0003643	CTD-2369P2.10
ENSG00000167840	-1.55	5.064e-13	2.055e-12	ZNF232
ENSG00000167861	-1.298	2.918e-32	2.886e-31	HID1
ENSG00000167862	-1.09	3.741e-10	1.269e-09	ICT1
ENSG00000167874	2.402	0.0001541	0.0003334	TMEM88
ENSG00000167880	-1.571	2.815e-44	4.292e-43	EVPL
ENSG00000167889	-1.137	1.433e-10	5.004e-10	MGAT5B
ENSG00000167914	3.147	0.0001577	0.000341	GSDMA
ENSG00000167930	-1.042	9.023e-29	7.708e-28	ITFG3
ENSG00000167964	-2.075	5.048e-14	2.165e-13	RAB26
ENSG00000167965	-1.119	4.364e-20	2.526e-19	MLST8
ENSG00000167967	-1.736	5.894e-36	6.74e-35	E4F1
ENSG00000167968	-1.413	0.01877	0.03109	DNASE1L2
ENSG00000167972	-1.456	6.294e-18	3.291e-17	ABCA3
ENSG00000167992	2.818	0.0001392	0.0003028	VWCE
ENSG00000167994	-1.519	1.189e-05	2.855e-05	RAB3IL1
ENSG00000167995	6.131	1.232e-07	3.502e-07	BEST1
ENSG00000168003	1.193	1.657e-09	5.39e-09	SLC3A2
ENSG00000168005	-1.256	1.419e-14	6.245e-14	C11orf84
ENSG00000168010	-1.594	5.533e-15	2.489e-14	ATG16L2
ENSG00000168016	-2.131	6.465e-16	3.049e-15	TRANK1
ENSG00000168040	-2.297	7.303e-36	8.316e-35	FADD

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ENSG00000168061	-4.141	1.788e-48	3.084e-47	SAC3D1
ENSG00000168062	1.777	0.0009161	0.001824	BATF2
ENSG00000168077	-2.052	2.904e-16	1.396e-15	SCARA3
ENSG00000168078	-1.829	1.904e-45	3.012e-44	PBK
ENSG00000168079	2.678	0.0001067	0.0002354	SCARA5
ENSG00000168101	-1.3	2.575e-12	1e-11	NUDT16L1
ENSG00000168116	-2.28	1.221e-20	7.245e-20	KIAA1586
ENSG00000168137	1.111	6.781e-17	3.362e-16	SETD5
ENSG00000168152	-1.671	4.173e-10	1.412e-09	THAP9
ENSG00000168159	-1.561	3.017e-17	1.523e-16	RNF187
ENSG00000168209	2.663	2.075e-24	1.464e-23	DDIT4
ENSG00000168259	1.149	5.283e-17	2.636e-16	DNAJC7
ENSG00000168264	-1.507	1.731e-28	1.456e-27	IRF2BP2
ENSG00000168282	-1.869	5.292e-38	6.587e-37	MGAT2
ENSG00000168283	-1.083	1.398e-31	1.341e-30	BMI1
ENSG00000168286	-1.185	7.094e-09	2.205e-08	THAP11
ENSG00000168300	-1.049	0.000109	0.0002402	PCMTD1
ENSG00000168303	-1.049	1.268e-14	5.596e-14	MPLKIP
ENSG00000168334	4.516	2.206e-05	5.175e-05	XIRP1
ENSG00000168348	4.367	6.957e-05	0.0001561	INSM2
ENSG00000168374	1.288	4.554e-53	8.857e-52	ARF4
ENSG00000168386	1.031	1.124e-05	2.705e-05	FILIP1L
ENSG00000168393	-1.54	1.819e-12	7.135e-12	DTYMK
ENSG00000168395	-1.379	7.155e-20	4.105e-19	ING5
ENSG00000168427	-1.193	0.0002324	0.0004943	KLHL30
ENSG00000168439	1.378	1.769e-41	2.473e-40	STIP1
ENSG00000168453	-1.112	6.505e-15	2.918e-14	HR
ENSG00000168491	1.249	0.005583	0.01005	CCDC110
ENSG00000168496	-2.397	5.429e-56	1.148e-54	FEN1
ENSG00000168502	-1.597	2.598e-28	2.164e-27	SOGA2
ENSG00000168517	-2.684	1.231e-12	4.879e-12	HEXIM2
ENSG00000168530	4.796	2.976e-06	7.525e-06	MYL1
ENSG00000168538	-1.104	3.426e-22	2.186e-21	TRAPPC11
ENSG00000168539	4.41	2.38e-05	5.568e-05	CHRM1
ENSG00000168569	-2.693	1.283e-42	1.85e-41	TMEM223
ENSG00000168589	2.761	0.005043	0.00913	DYNLRB2
ENSG00000168591	1.412	1.788e-17	9.119e-17	TMUB2
ENSG00000168621	4.841	2.007e-06	5.149e-06	GDNF
ENSG00000168658	3.024	2.618e-06	6.648e-06	VWA3B
ENSG00000168661	-3.217	5.446e-25	3.944e-24	ZNF30
ENSG00000168672	-1.263	1.822e-19	1.025e-18	FAM84B
ENSG00000168675	3.35	1.134e-09	3.737e-09	LDLRAD4
ENSG00000168685	1.156	4.959e-10	1.67e-09	IL7R
ENSG00000168746	4.164	0.0001022	0.0002258	C20orf62

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ENSG00000168758	-3.217	1.108e-79	4.503e-78	SEMA4C
ENSG00000168763	-2.247	6.994e-46	1.119e-44	CNNM3
ENSG00000168778	-1.785	2.06e-15	9.466e-15	TCTN2
ENSG00000168781	-1.082	8.519e-16	3.99e-15	PPIP5K1
ENSG00000168785	-1.43	4.704e-12	1.801e-11	TSPAN5
ENSG00000168792	-3.311	2.885e-43	4.271e-42	ABHD15
ENSG00000168795	1.328	1.997e-24	1.411e-23	ZBTB5
ENSG00000168802	-1.37	8.34e-15	3.725e-14	CHTF8
ENSG00000168803	-1.296	3.092e-10	1.057e-09	ADAL
ENSG00000168806	-1.696	1.949e-15	8.967e-15	LCMT2
ENSG00000168807	-2.18	7.399e-113	6.179e-111	SNTB2
ENSG00000168826	2.34	5.749e-53	1.117e-51	ZBTB49
ENSG00000168887	-1.186	2.36e-16	1.139e-15	C2orf68
ENSG00000168890	-1.264	4.078e-07	1.112e-06	TMEM150A
ENSG00000168906	-1.782	6.966e-93	3.991e-91	MAT2A
ENSG00000168907	-3.045	2.098e-07	5.852e-07	PLA2G4F
ENSG00000168916	-2.303	0.0001786	0.0003841	ZNF608
ENSG00000168925	2.695	0.004906	0.008892	CTRB1
ENSG00000168928	2.577	0.0005078	0.001041	CTRB2
ENSG00000168936	-1.216	5.454e-12	2.08e-11	TMEM129
ENSG00000168944	-1.574	1.586e-22	1.024e-21	CEP120
ENSG00000168952	-1.951	3.071e-08	9.106e-08	STXBP6
ENSG00000168970	-1.429	2.253e-06	5.75e-06	JMJD7-PLA2G4B
ENSG00000169016	1.466	2.593e-39	3.355e-38	E2F6
ENSG00000169018	-1.44	4.647e-36	5.335e-35	FEM1B
ENSG00000169021	-1.03	4.324e-09	1.364e-08	UQCRFS1
ENSG00000169047	-2.736	2.927e-140	3.962e-138	IRS1
ENSG00000169067	1.03	0.0007481	0.001504	ACTBL2
ENSG00000169083	2.176	1.803e-06	4.645e-06	AR
ENSG00000169085	-2.507	6.729e-05	0.0001511	C8orf46
ENSG00000169105	-3.132	1.993e-38	2.507e-37	CHST14
ENSG00000169129	-2.263	1.622e-60	4.033e-59	AFAP1L2
ENSG00000169131	-1.236	1.771e-06	4.569e-06	ZNF354A
ENSG00000169136	-3.961	3.945e-183	1.003e-180	ATF5
ENSG00000169155	3.36	0	0	ZBTB43
ENSG00000169169	2.874	1.06e-05	2.557e-05	CPT1C
ENSG00000169174	-1.029	1.222e-07	3.476e-07	PCSK9
ENSG00000169181	3.725	0.001056	0.00209	GSG1L
ENSG00000169184	-2.493	0.0002383	0.0005063	MN1
ENSG00000169188	-1.775	1.926e-35	2.17e-34	APEX2
ENSG00000169203	1.496	2.097e-06	5.368e-06	RP11-231C14.4
ENSG00000169213	1.234	7.453e-19	4.071e-18	RAB3B
ENSG00000169220	-2.728	1.508e-05	3.587e-05	RGS14
ENSG00000169242	-2.227	7.149e-26	5.415e-25	EFNA1

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ENSG00000169246	1.044	0.03012	0.04809	NPIPB3
ENSG00000169255	-1.597	4.376e-17	2.193e-16	B3GALNT1
ENSG00000169258	-1.233	2.353e-12	9.169e-12	GPRIN1
ENSG00000169297	-2.394	5.871e-29	5.043e-28	NR0B1
ENSG00000169371	-1.515	4.324e-22	2.744e-21	SNUPN
ENSG00000169402	2.454	0.0009338	0.001859	RSPH10B2
ENSG00000169410	-1.591	1.018e-38	1.298e-37	PTPN9
ENSG00000169418	2.022	0.000426	0.000881	NPR1
ENSG00000169427	3.92	0.000444	0.000916	KCNK9
ENSG00000169429	7.366	0	0	IL8
ENSG00000169469	1.838	0.006548	0.01167	SPRR1B
ENSG00000169499	-1.426	8.669e-21	5.184e-20	PLEKHA2
ENSG00000169504	1.371	3.192e-65	9.143e-64	CLIC4
ENSG00000169519	-1.918	1.286e-40	1.736e-39	METTL15
ENSG00000169554	1.315	0.0003994	0.0008289	ZEB2
ENSG00000169570	-1.871	1.534e-18	8.282e-18	DTWD2
ENSG00000169594	2.667	4.398e-17	2.204e-16	BNC1
ENSG00000169598	-1.314	6.811e-07	1.823e-06	DFFB
ENSG00000169607	-2.244	8.383e-65	2.365e-63	CKAP2L
ENSG00000169629	1.221	2.456e-15	1.124e-14	RGPD8
ENSG00000169660	-1.012	1.401e-07	3.971e-07	HEXDC
ENSG00000169676	3.161	0.02602	0.04204	DRD5
ENSG00000169679	-2.166	2.221e-95	1.332e-93	BUB1
ENSG00000169683	-2.874	8.514e-40	1.122e-38	LRRC45
ENSG00000169688	3.758	0.004323	0.007895	MT1B
ENSG00000169689	-1.369	7.161e-09	2.226e-08	STRA13
ENSG00000169710	-1.092	8.776e-32	8.496e-31	FASN
ENSG00000169718	-1.201	3.869e-38	4.832e-37	DUS1L
ENSG00000169733	-1.003	5.93e-08	1.722e-07	RFNG
ENSG00000169740	-1.455	3.84e-06	9.621e-06	ZNF32
ENSG00000169752	-1.606	1.196e-06	3.138e-06	NRG4
ENSG00000169756	1.204	1.851e-24	1.312e-23	LIMS1
ENSG00000169760	3.304	0.001083	0.002143	NLGN1
ENSG00000169814	-1.281	1.01e-10	3.558e-10	BTD
ENSG00000169826	2.322	3.067e-71	1.013e-69	CSGALNACT2
ENSG00000169851	-1.277	1.229e-39	1.61e-38	PCDH7
ENSG00000169860	-1.615	0.02096	0.03442	P2RY1
ENSG00000169871	-1.425	1.188e-19	6.749e-19	TRIM56
ENSG00000169884	-2.515	8.938e-07	2.371e-06	WNT10B
ENSG00000169894	-2.654	0.0001818	0.0003907	MUC3A
ENSG00000169896	1.9	0.0003184	0.000668	ITGAM
ENSG00000169902	-1.46	1.688e-08	5.097e-08	TPST1
ENSG00000169908	2.513	4.009e-137	5.216e-135	TM4SF1
ENSG00000169925	-2.925	1.266e-115	1.095e-113	BRD3

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ENSG00000169946	2.867	5.436e-23	3.577e-22	ZFPM2
ENSG00000169957	-1.957	5.496e-40	7.282e-39	ZNF768
ENSG00000169964	-2.172	1.025e-12	4.091e-12	TMEM42
ENSG00000169972	-1.077	3.868e-13	1.581e-12	PUSL1
ENSG00000169991	-1.672	5.464e-17	2.724e-16	IFFO2
ENSG00000169992	-1.131	2.26e-14	9.858e-14	NLGN2
ENSG00000169994	3.574	2.338e-08	6.994e-08	MYO7B
ENSG00000170006	1.409	2.097e-19	1.175e-18	TMEM154
ENSG00000170027	1.197	1.858e-35	2.097e-34	YWHAG
ENSG00000170037	-1.489	2.638e-35	2.958e-34	CNTROB
ENSG00000170044	3.204	0.01801	0.02996	ZPLD1
ENSG00000170074	5.257	1.5e-11	5.574e-11	FAM153A
ENSG00000170113	-1.617	8.007e-44	1.207e-42	NIPA1
ENSG00000170145	-1.389	1.55e-35	1.754e-34	SIK2
ENSG00000170190	-2.534	1.413e-29	1.246e-28	SLC16A5
ENSG00000170191	-1.949	1.128e-41	1.586e-40	NANP
ENSG00000170214	-2.296	9.267e-21	5.53e-20	ADRA1B
ENSG00000170222	1.593	3.779e-09	1.197e-08	ADPRM
ENSG00000170231	-2.963	0.01757	0.02927	FABP6
ENSG00000170234	-1.044	1.307e-09	4.286e-09	PWWP2A
ENSG00000170264	-1.979	5.386e-22	3.404e-21	FAM161A
ENSG00000170271	1.463	1.794e-10	6.217e-10	FAXDC2
ENSG00000170291	-1.209	4.317e-22	2.741e-21	ELP5
ENSG00000170312	-2.022	5.382e-58	1.216e-56	CDK1
ENSG00000170315	1.322	5.949e-37	7.077e-36	UBB
ENSG00000170345	3.946	4.084e-298	2.981e-295	FOS
ENSG00000170365	-2.493	2.562e-33	2.634e-32	SMAD1
ENSG00000170381	-1.421	4.108e-06	1.028e-05	SEMA3E
ENSG00000170382	-2.454	4.546e-30	4.065e-29	LRRN2
ENSG00000170385	2.555	4.16e-98	2.586e-96	SLC30A1
ENSG00000170412	-1.771	3.425e-06	8.619e-06	GPRC5C
ENSG00000170417	-1.042	6.349e-07	1.703e-06	TMEM182
ENSG00000170425	-2.689	7.49e-54	1.495e-52	ADORA2B
ENSG00000170426	3.218	0.01647	0.02756	SDR9C7
ENSG00000170442	-1.38	0.002455	0.004644	KRT86
ENSG00000170456	-2.433	1.608e-44	2.47e-43	DENND5B
ENSG00000170465	1.7	1.728e-05	4.087e-05	KRT6C
ENSG00000170473	-1.158	1.158e-14	5.123e-14	WIBG
ENSG00000170482	2.395	7.464e-16	3.507e-15	SLC23A1
ENSG00000170500	-1.704	2.543e-45	3.993e-44	LONRF2
ENSG00000170522	-1.84	1.275e-48	2.211e-47	ELOVL6
ENSG00000170540	-1.419	8.279e-22	5.193e-21	ARL6IP1
ENSG00000170542	2.972	0.0286	0.04585	SERPIN9
ENSG00000170545	-1.23	5.66e-20	3.261e-19	SMAGP

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ENSG00000170577	-3.51	1.113e-20	6.625e-20	SIX2
ENSG00000170579	3.928	0.0003797	0.0007895	DLGAP1
ENSG00000170604	-2.196	4.434e-39	5.712e-38	IRF2BP1
ENSG00000170606	1.315	1.55e-67	4.712e-66	HSPA4
ENSG00000170615	4.319	3.509e-19	1.95e-18	SLC26A5
ENSG00000170616	3.631	0.002413	0.004571	SCRT1
ENSG00000170619	-1.777	2.697e-11	9.884e-11	COMMD5
ENSG00000170632	-1.107	2.452e-15	1.122e-14	ARMC10
ENSG00000170638	-1.911	7.271e-21	4.367e-20	TRABD
ENSG00000170677	-2.014	1.348e-62	3.586e-61	SOCS6
ENSG00000170683	1.858	0.019	0.03143	OR10A3
ENSG00000170684	-1.708	8.316e-07	2.212e-06	ZNF296
ENSG00000170745	-2.58	2.153e-40	2.885e-39	KCNS3
ENSG00000170779	-2.404	5.63e-52	1.069e-50	CDCA4
ENSG00000170801	2.018	2.392e-34	2.586e-33	HTRA3
ENSG00000170802	2.779	5.484e-113	4.603e-111	FOXN2
ENSG00000170807	3.247	0.01871	0.03101	LMOD2
ENSG00000170835	1.532	0.006802	0.0121	CEL
ENSG00000170854	-2.062	1.255e-75	4.641e-74	MINA
ENSG00000170855	-1.133	1.225e-09	4.03e-09	TRIAP1
ENSG00000170871	1.491	5.271e-72	1.777e-70	KIAA0232
ENSG00000170873	1.367	1.129e-11	4.231e-11	MTSS1
ENSG00000170876	-1.005	1.563e-26	1.213e-25	TMEM43
ENSG00000170890	3.669	0.001256	0.002464	PLA2G1B
ENSG00000170909	1.633	0.009221	0.01607	OSCAR
ENSG00000170915	-3.651	1.693e-13	7.08e-13	PAQR8
ENSG00000170917	-3.437	1.275e-15	5.924e-15	NUDT6
ENSG00000170949	-1.007	1.042e-08	3.194e-08	ZNF160
ENSG00000170955	-1.41	0.02219	0.03629	PRKCDBP
ENSG00000170962	-1.16	1.334e-10	4.667e-10	PDGFD
ENSG00000170965	1.796	7.558e-07	2.017e-06	PLAC1
ENSG00000171004	-1.545	6.336e-60	1.548e-58	HS6ST2
ENSG00000171016	-1.725	2.024e-09	6.537e-09	PYGO1
ENSG00000171017	-1.598	0.006139	0.01098	LRRC8E
ENSG00000171044	2.231	0.01713	0.02858	XKR6
ENSG00000171056	-1.746	5.814e-14	2.485e-13	SOX7
ENSG00000171103	-1.47	7.898e-15	3.534e-14	TRMT61B
ENSG00000171116	-3.577	0.0007027	0.001416	HSFX1
ENSG00000171121	-2.398	7.782e-15	3.484e-14	KCNMB3
ENSG00000171126	-3.374	1.284e-08	3.908e-08	KCNG3
ENSG00000171129	-3.281	0.0006399	0.001299	HSFX2
ENSG00000171130	-1.432	1.873e-16	9.065e-16	ATP6V0E2
ENSG00000171135	-1.621	2.72e-13	1.124e-12	JAGN1
ENSG00000171155	-1.397	5.029e-12	1.922e-11	C1GALT1C1

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ENSG00000171160	-1.7	3.257e-21	1.992e-20	MORN4
ENSG00000171161	-2.488	1.153e-53	2.282e-52	ZNF672
ENSG00000171189	2.369	4.19e-05	9.597e-05	GRIK1
ENSG00000171208	-1.137	2.467e-21	1.517e-20	NETO2
ENSG00000171219	-2.161	1.867e-48	3.207e-47	CDC42BPG
ENSG00000171222	-1.084	2.01e-05	4.729e-05	SCAND1
ENSG00000171236	-2.644	3.32e-25	2.429e-24	LRG1
ENSG00000171241	-1.728	7.339e-23	4.804e-22	SHCBP1
ENSG00000171246	-2.801	3.288e-109	2.555e-107	NPTX1
ENSG00000171282	-2.489	1.176e-85	5.592e-84	RP11-1055B8.7
ENSG00000171303	2.36	0.00025	0.0005298	KCNK3
ENSG00000171320	-1.726	2.17e-20	1.276e-19	ESCO2
ENSG00000171357	3.491	0.004413	0.008045	LURAP1
ENSG00000171396	3.282	0.01513	0.02549	KRTAP4-4
ENSG00000171403	1.229	9.64e-06	2.335e-05	KRT9
ENSG00000171421	-1.091	4.101e-08	1.205e-07	MRPL36
ENSG00000171443	-1.097	4.264e-08	1.251e-07	ZNF524
ENSG00000171444	-1.177	8.004e-09	2.48e-08	MCC
ENSG00000171450	1.689	0.0008934	0.001781	CDK5R2
ENSG00000171451	1.607	5.172e-14	2.216e-13	DSEL
ENSG00000171462	-1.701	1.68e-05	3.979e-05	DLK2
ENSG00000171466	1.566	4.408e-46	7.088e-45	ZNF562
ENSG00000171467	-2.387	4.493e-49	7.897e-48	ZNF318
ENSG00000171471	2.069	1.081e-06	2.847e-06	MAP1LC3B2
ENSG00000171487	3.94	0.0008084	0.001619	NLRP5
ENSG00000171492	-1.342	6.556e-52	1.244e-50	LRRRC8D
ENSG00000171497	1.231	2.043e-39	2.65e-38	PPID
ENSG00000171502	2.652	0.0009834	0.001953	COL24A1
ENSG00000171533	8.149	1.887e-17	9.612e-17	MAP6
ENSG00000171566	1.371	2.291e-28	1.915e-27	PLRG1
ENSG00000171570	4.76	3.106e-05	7.186e-05	RAB4B-EGLN2
ENSG00000171574	-1.552	3.434e-30	3.086e-29	ZNF584
ENSG00000171603	-1.014	1.765e-21	1.095e-20	CLSTN1
ENSG00000171604	-3.555	9.75e-119	9.352e-117	CXXC5
ENSG00000171606	1.368	1.643e-54	3.331e-53	ZNF274
ENSG00000171612	-1.089	1.023e-08	3.138e-08	SLC25A33
ENSG00000171621	1.787	9.77e-64	2.658e-62	SPSB1
ENSG00000171631	-2.498	9.689e-17	4.756e-16	P2RY6
ENSG00000171649	4.312	0.0001635	0.0003528	ZIK1
ENSG00000171700	-2.041	1.277e-20	7.573e-20	RGS19
ENSG00000171722	1.56	0.004672	0.008485	C1orf111
ENSG00000171729	-1.539	9.526e-14	4.034e-13	TMEM51
ENSG00000171757	-1.605	5.001e-11	1.799e-10	LRRRC34
ENSG00000171786	5.13	2.314e-28	1.934e-27	NHLH1

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ENSG00000171790	-2.814	2.776e-11	1.015e-10	SLFNL1
ENSG00000171792	-1.82	1.274e-22	8.265e-22	RHNO1
ENSG00000171806	-1.931	2.555e-18	1.364e-17	METTL18
ENSG00000171813	-3.046	1.862e-55	3.873e-54	PWWP2B
ENSG00000171823	1.508	8.05e-13	3.229e-12	FBXL14
ENSG00000171827	-2.637	0.02347	0.0382	ZNF570
ENSG00000171848	-1.094	1.203e-30	1.102e-29	RRM2
ENSG00000171867	2.341	7.948e-208	3.254e-205	PRNP
ENSG00000171903	2.731	1.425e-210	6.134e-208	CYP4F11
ENSG00000171931	1.495	1.301e-28	1.103e-27	FBXW10
ENSG00000171940	-1.194	2.048e-29	1.795e-28	ZNF217
ENSG00000171954	2.999	0.01673	0.02797	CYP4F22
ENSG00000171988	2.605	1.413e-64	3.961e-63	JMJD1C
ENSG00000171989	2.389	0.003371	0.006245	LDHAL6B
ENSG00000172000	3.826	0.001005	0.001994	ZNF556
ENSG00000172006	-1.104	0.01548	0.02603	ZNF554
ENSG00000172007	-1.315	1.541e-08	4.66e-08	RAB33B
ENSG00000172009	-1.323	1.049e-36	1.231e-35	THOP1
ENSG00000172031	-1.136	0.0001205	0.0002639	EPHX4
ENSG00000172037	-1.095	7.867e-39	1.007e-37	LAMB2
ENSG00000172057	-1.005	1.567e-07	4.422e-07	ORMDL3
ENSG00000172059	-1.923	2.244e-30	2.032e-29	KLF11
ENSG00000172061	2.987	1.631e-05	3.869e-05	LRRC15
ENSG00000172062	1.101	2.228e-06	5.69e-06	SMN1
ENSG00000172071	1.753	2.592e-55	5.371e-54	EIF2AK3
ENSG00000172081	-1.282	6.158e-16	2.909e-15	MOB3A
ENSG00000172086	-1.147	5.051e-07	1.367e-06	KRCC1
ENSG00000172159	1.246	7.392e-06	1.809e-05	FRMD3
ENSG00000172164	-1.436	0.0008802	0.001756	SNTB1
ENSG00000172167	-1.678	1.148e-35	1.303e-34	MTBP
ENSG00000172171	-1.389	2.588e-15	1.183e-14	TEFM
ENSG00000172183	2.825	1.631e-18	8.79e-18	ISG20
ENSG00000172197	-2.842	6.241e-24	4.317e-23	MBOAT1
ENSG00000172209	2.89	0.0253	0.04097	GPR22
ENSG00000172232	4.33	7.119e-06	1.744e-05	AZU1
ENSG00000172244	-1.303	2.779e-18	1.48e-17	C5orf34
ENSG00000172296	-2.275	5.007e-10	1.685e-09	SPTLC3
ENSG00000172301	-1.288	9.325e-08	2.672e-07	COPRS
ENSG00000172315	-2.486	7.394e-46	1.182e-44	TP53RK
ENSG00000172336	-1.934	2.116e-21	1.307e-20	POP7
ENSG00000172339	-1.699	4.975e-17	2.488e-16	ALG14
ENSG00000172345	-1.616	0.0004107	0.0008506	STARD5
ENSG00000172346	3.567	0.0002317	0.0004929	CSDC2
ENSG00000172349	4.049	1.222e-10	4.289e-10	IL16

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ENSG00000172361	1.919	9.259e-11	3.269e-10	CCDC11
ENSG00000172366	-1.807	3.26e-13	1.337e-12	FAM195A
ENSG00000172382	-1.905	1.325e-17	6.795e-17	PRSS27
ENSG00000172426	1.959	1.085e-05	2.616e-05	RSPH9
ENSG00000172458	-2.677	2.87e-09	9.172e-09	IL17D
ENSG00000172461	-3.858	1.225e-108	9.347e-107	FUT9
ENSG00000172469	-3.235	9.893e-37	1.162e-35	MANEA
ENSG00000172476	-1.818	1.563e-06	4.053e-06	RAB40A
ENSG00000172478	-2.362	2.596e-29	2.267e-28	C2orf54
ENSG00000172493	1.098	4.671e-18	2.46e-17	AFF1
ENSG00000172530	1.485	3.118e-32	3.074e-31	BANP
ENSG00000172543	3.344	3.707e-08	1.093e-07	CTSW
ENSG00000172586	-1.396	7.075e-05	0.0001586	CHCHD1
ENSG00000172594	-1.589	0.0004183	0.0008657	SMPDL3A
ENSG00000172602	2.737	5.159e-26	3.933e-25	RND1
ENSG00000172638	3.27	1.086e-23	7.423e-23	EFEMP2
ENSG00000172667	-1.106	9.486e-15	4.222e-14	ZMAT3
ENSG00000172671	-1.775	2.298e-16	1.11e-15	ZFAND4
ENSG00000172673	3.52	0.003517	0.0065	THEMIS
ENSG00000172687	-1.611	0.004456	0.008112	ZNF738
ENSG00000172716	-1.641	0.00414	0.007581	SLFN11
ENSG00000172728	-2.396	5.42e-08	1.579e-07	FUT10
ENSG00000172731	-3.49	2.682e-63	7.214e-62	LRRC20
ENSG00000172738	3.187	9.756e-20	5.561e-19	TMEM217
ENSG00000172789	-3.047	0.0005443	0.001112	HOXC5
ENSG00000172803	2.705	1.625e-22	1.048e-21	SNX32
ENSG00000172818	2.174	8.84e-41	1.201e-39	OVOL1
ENSG00000172819	-1.343	1.41e-28	1.192e-27	RARG
ENSG00000172828	-1.826	4.215e-09	1.331e-08	CES3
ENSG00000172830	-1.623	2.924e-55	6.036e-54	SSH3
ENSG00000172845	-1.504	1.054e-55	2.208e-54	SP3
ENSG00000172878	-1.742	4.518e-34	4.797e-33	METAP1D
ENSG00000172927	-2.756	6.572e-120	6.489e-118	MYEOV
ENSG00000172935	1.801	0.007097	0.01258	MRGPRF
ENSG00000172936	-1.469	8.101e-23	5.298e-22	MYD88
ENSG00000172938	4.684	4.748e-06	1.179e-05	MRGPRD
ENSG00000172939	1.433	3.401e-76	1.283e-74	OXSRI
ENSG00000172940	2.876	0.0007933	0.00159	SLC22A13
ENSG00000172943	1.027	3.009e-14	1.305e-13	PHF8
ENSG00000172954	-1.127	3.375e-12	1.3e-11	LCLAT1
ENSG00000172969	3.049	0.02328	0.03793	FRG2C
ENSG00000173013	-1.838	1.664e-05	3.943e-05	CCDC96
ENSG00000173077	2.522	0.0003562	0.0007431	1-Dec
ENSG00000173080	1.952	0.01116	0.01919	RXFP4

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ENSG00000173088	-2.885	0.004908	0.008894	C10orf131
ENSG00000173110	12.87	1.713e-112	1.416e-110	HSPA6
ENSG00000173120	1.133	1.393e-45	2.208e-44	KDM2A
ENSG00000173141	-1.522	5.383e-21	3.258e-20	MRP63
ENSG00000173153	-1.29	1.708e-08	5.155e-08	ESRRA
ENSG00000173157	-1.787	0.01735	0.02893	ADAMTS20
ENSG00000173166	1.087	8.223e-06	2.002e-05	RAPH1
ENSG00000173209	1.83	4.86e-75	1.777e-73	AHSA2
ENSG00000173212	1.595	0.008384	0.0147	MAB21L3
ENSG00000173218	-4.616	0	0	VANGL1
ENSG00000173221	1.999	1.113e-32	1.117e-31	GLRX
ENSG00000173227	-1.374	8.152e-08	2.346e-07	SYT12
ENSG00000173258	1.684	6.121e-07	1.644e-06	ZNF483
ENSG00000173269	1.148	0.01522	0.02562	MMRN2
ENSG00000173275	-1.852	3.362e-25	2.458e-24	ZNF449
ENSG00000173276	1.156	6.226e-16	2.939e-15	ZBTB21
ENSG00000173327	-1.234	3.887e-18	2.054e-17	MAP3K11
ENSG00000173334	3.006	1.398e-127	1.585e-125	TRIB1
ENSG00000173402	-2.88	1.223e-290	8.209e-288	DAG1
ENSG00000173456	-2.411	6.053e-85	2.862e-83	RNF26
ENSG00000173545	1.249	2.04e-37	2.476e-36	ZNF622
ENSG00000173546	-1.222	0.0002838	0.0005984	CSPG4
ENSG00000173548	-2.894	8.704e-103	6.012e-101	SNX33
ENSG00000173566	-2.596	3.858e-11	1.4e-10	NUDT18
ENSG00000173581	1.561	3.899e-08	1.148e-07	CCDC106
ENSG00000173588	-1.493	1.021e-15	4.767e-15	CCDC41
ENSG00000173611	-1.417	2.42e-25	1.786e-24	SCAI
ENSG00000173621	-2.12	2.016e-21	1.247e-20	LRFN4
ENSG00000173638	-3.036	1.269e-38	1.611e-37	SLC19A1
ENSG00000173662	4.461	1.98e-05	4.664e-05	TAS1R1
ENSG00000173692	1.244	2.96e-59	7.017e-58	PSMD1
ENSG00000173705	-1.79	6.214e-26	4.718e-25	SUSD5
ENSG00000173786	-1.981	5.549e-45	8.608e-44	CNP
ENSG00000173812	1.026	2.917e-09	9.318e-09	EIF1
ENSG00000173818	1.014	2.897e-11	1.058e-10	ENDOV
ENSG00000173846	1.525	2.691e-21	1.65e-20	PLK3
ENSG00000173848	-1.511	4.186e-62	1.093e-60	NET1
ENSG00000173852	-1.483	1.194e-25	8.959e-25	DPY19L1
ENSG00000173875	1.25	3.736e-18	1.975e-17	ZNF791
ENSG00000173898	-2.149	4.622e-73	1.603e-71	SPTBN2
ENSG00000173905	-1.549	4.851e-17	2.427e-16	GOLIM4
ENSG00000173914	-1.091	8.826e-12	3.32e-11	RBM4B
ENSG00000173918	-1.133	0.000119	0.0002607	C1QTNF1
ENSG00000173926	-1.704	0.0004696	0.0009662	3-Mar

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ENSG00000173928	-1.271	4.227e-05	9.678e-05	SWSAP1
ENSG00000173950	-2.242	1.505e-33	1.56e-32	XXYLT1
ENSG00000173960	-1.26	8.712e-21	5.208e-20	UBXN2A
ENSG00000173991	2.287	2.333e-08	6.978e-08	TCAP
ENSG00000174004	-2.559	0.003387	0.006271	NRROS
ENSG00000174007	-1.68	1.34e-10	4.684e-10	CEP19
ENSG00000174032	-2.708	2.991e-43	4.424e-42	SLC25A30
ENSG00000174038	4.546	1.893e-10	6.552e-10	C9orf131
ENSG00000174123	4.392	9.694e-05	0.0002146	TLR10
ENSG00000174145	3.351	2.74e-06	6.942e-06	KIAA1239
ENSG00000174151	-1.558	4.2e-20	2.434e-19	CYB561D1
ENSG00000174165	-1.403	1.536e-15	7.09e-15	ZDHHC24
ENSG00000174177	-1.179	1.231e-09	4.049e-09	CTU2
ENSG00000174194	1.259	5.254e-09	1.649e-08	AGAP8
ENSG00000174225	1.464	0.001078	0.002133	ARL13A
ENSG00000174233	-1.726	1.66e-20	9.799e-20	ADCY6
ENSG00000174243	-1.028	8.196e-22	5.143e-21	DDX23
ENSG00000174276	-2.663	1.505e-29	1.326e-28	ZNHIT2
ENSG00000174282	-1.179	8.35e-28	6.834e-27	ZBTB4
ENSG00000174292	-1.019	1.258e-10	4.406e-10	TNK1
ENSG00000174306	-2.785	3.612e-116	3.208e-114	ZHX3
ENSG00000174307	-2.191	0.0002186	0.0004665	PHLDA3
ENSG00000174326	2.458	4.852e-05	0.0001105	SLC16A11
ENSG00000174327	-1.138	1.981e-12	7.753e-12	SLC16A13
ENSG00000174343	1.692	0.008618	0.01508	CHRNA9
ENSG00000174358	5.293	6.627e-08	1.917e-07	SLC6A19
ENSG00000174371	-2.691	2.788e-88	1.414e-86	EXO1
ENSG00000174374	-1.289	1.372e-21	8.537e-21	WBCSR16
ENSG00000174417	2.215	0.03137	0.04993	TRHR
ENSG00000174446	-1.498	1.063e-13	4.485e-13	SNAPC5
ENSG00000174456	-1.89	7.852e-08	2.262e-07	C12orf76
ENSG00000174460	2.89	0.0002215	0.0004722	ZCCHC12
ENSG00000174501	1.228	4.085e-08	1.2e-07	ANKRD36C
ENSG00000174502	1.811	0.003077	0.005739	SLC26A9
ENSG00000174514	-1.766	2.457e-05	5.739e-05	MFSD4
ENSG00000174516	-1.16	3.685e-08	1.087e-07	PELI3
ENSG00000174521	2.528	4.731e-05	0.0001078	TTC9B
ENSG00000174600	3.791	0.000872	0.00174	CMKLR1
ENSG00000174607	-2.357	0.0003403	0.0007115	UGT8
ENSG00000174669	-2.3	6.6e-66	1.913e-64	SLC29A2
ENSG00000174672	-2.639	5.374e-19	2.957e-18	BRSK2
ENSG00000174684	-4.719	6.044e-57	1.318e-55	B3GNT1
ENSG00000174697	3.451	0.004361	0.007959	LEP
ENSG00000174721	-3.259	2.441e-05	5.705e-05	FGFBP3

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ENSG00000174788	2.037	0.02438	0.03956	PCP2
ENSG00000174791	-2.449	1.062e-29	9.401e-29	RIN1
ENSG00000174792	2.32	0.00197	0.00378	C4orf26
ENSG00000174804	-2.668	5.517e-45	8.566e-44	FZD4
ENSG00000174839	-1.058	6.397e-19	3.506e-18	DENND6A
ENSG00000174840	-1.465	2.286e-43	3.4e-42	PDE12
ENSG00000174842	-1.405	5.925e-22	3.738e-21	GLMN
ENSG00000174871	2.833	4.502e-16	2.143e-15	CNIH2
ENSG00000174898	3.929	0.0004307	0.0008903	CATSPERD
ENSG00000174928	-1.014	9.336e-06	2.264e-05	C3orf33
ENSG00000174945	1.202	0.008067	0.01419	AMZ1
ENSG00000174989	-1.458	1.198e-29	1.059e-28	FBXW8
ENSG00000175003	1.831	0.005837	0.01047	SLC22A1
ENSG00000175048	-1.152	9.876e-08	2.825e-07	ZDHHC14
ENSG00000175054	-2.256	3.408e-120	3.426e-118	ATR
ENSG00000175063	-1.164	7.362e-30	6.549e-29	UBE2C
ENSG00000175066	-1.364	8.504e-17	4.195e-16	GK5
ENSG00000175087	-1.262	2.564e-12	9.964e-12	PDIK1L
ENSG00000175105	1.952	2.613e-32	2.589e-31	ZNF654
ENSG00000175106	1.001	0.002061	0.003945	TVP23C
ENSG00000175121	1.915	0.02183	0.03577	WFDC5
ENSG00000175130	-1.71	4.486e-81	1.897e-79	MARCKSL1
ENSG00000175182	-2.316	1.036e-25	7.792e-25	FAM131A
ENSG00000175183	2.708	4.484e-21	2.724e-20	CSRP2
ENSG00000175193	-1.098	2.431e-12	9.458e-12	PARL
ENSG00000175197	4.216	8.992999999999999e-195	2.795e-192	DDIT3
ENSG00000175216	-2.067	2.024e-73	7.094e-72	CKAP5
ENSG00000175220	-1.275	2.094e-36	2.427e-35	ARHGAP1
ENSG00000175221	-1.332	1.175e-24	8.391e-24	MED16
ENSG00000175229	3.945	0.0008264	0.001654	GAL3ST3
ENSG00000175283	-3.165	4.571e-44	6.925e-43	DOLK
ENSG00000175305	-3.267	3.472e-72	1.178e-70	CCNE2
ENSG00000175318	-3.368	1.703e-74	6.163e-73	GRAMD2
ENSG00000175344	2.878	0.0235	0.03825	CHRNA7
ENSG00000175352	1.451	0.0003293	0.0006898	NRIP3
ENSG00000175356	2.94	0.0008458	0.00169	SCUBE2
ENSG00000175376	1.898	1.952e-38	2.458e-37	EIF1AD
ENSG00000175414	2.615	7.354e-16	3.457e-15	ARL10
ENSG00000175445	-1.648	0.001473	0.002869	LPL
ENSG00000175455	-1.129	5.265e-23	3.467e-22	CCDC14
ENSG00000175463	1.703	0.003765	0.006933	TBC1D10C
ENSG00000175505	1.826	3.145e-60	7.752e-59	CLCF1
ENSG00000175514	3.236	0.008717	0.01524	GPR152
ENSG00000175536	-2.547	0.0001939	0.0004154	LIPT2

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ENSG00000175548	-1.389	2.286e-15	1.047e-14	ALG10B
ENSG00000175556	1.71	3.477e-54	6.997e-53	LONRF3
ENSG00000175573	1.069	1.594e-16	7.738e-16	C11orf68
ENSG00000175591	-5.436	5.232e-92	2.908e-90	P2RY2
ENSG00000175592	2.986	1.522e-12	6.004e-12	FOSL1
ENSG00000175595	-2.22	1.359e-46	2.227e-45	ERCC4
ENSG00000175602	1.329	4.406e-19	2.435e-18	CCDC85B
ENSG00000175643	-2.903	1.387e-09	4.54e-09	RMI2
ENSG00000175707	-2.834	1.386e-18	7.49e-18	C1orf172
ENSG00000175711	-1.268	3.916e-10	1.327e-09	B3GNTL1
ENSG00000175745	-1.561	1.17e-06	3.072e-06	NR2F1
ENSG00000175764	-2.001	8.907e-10	2.952e-09	TTL11
ENSG00000175782	-1.185	7.4e-11	2.631e-10	SLC35E3
ENSG00000175792	-1.056	3.818e-18	2.018e-17	RUVBL1
ENSG00000175806	-1.035	1.724e-05	4.08e-05	MSRA
ENSG00000175866	-1.068	1.802e-28	1.514e-27	BAIAP2
ENSG00000175874	-1.912	8.499e-09	2.626e-08	CREG2
ENSG00000175879	-2.796	0.01376	0.02333	HOXD8
ENSG00000175894	3.624	0.002424	0.00459	TSPEAR
ENSG00000175906	-1.639	0.0001401	0.0003046	ARL4D
ENSG00000175920	-1.626	1.358e-07	3.852e-07	DOK7
ENSG00000175970	-1.883	1.73e-31	1.653e-30	UNC119B
ENSG00000175984	4.911	0	0	DENND2C
ENSG00000175985	1.824	0.002579	0.004868	PLEKHD1
ENSG00000176014	-1.024	1.337e-15	6.204e-15	TUBB6
ENSG00000176018	2.167	1.675e-69	5.303e-68	LYSMD3
ENSG00000176022	-1.754	4.452e-23	2.94e-22	B3GALT6
ENSG00000176024	-1.721	1.287e-09	4.225e-09	ZNF613
ENSG00000176046	1.095	0.02718	0.04378	NUPR1
ENSG00000176055	-4.67	1.675e-76	6.347e-75	MBLAC2
ENSG00000176058	-2.942	2.187e-60	5.416e-59	TPRN
ENSG00000176087	-1.106	3.482e-15	1.585e-14	SLC35A4
ENSG00000176101	-1.216	1.454e-08	4.406e-08	SSNA1
ENSG00000176108	-2.866	8.123e-33	8.184e-32	CHMP6
ENSG00000176124	-2.27	1.86e-18	9.991e-18	DLEU1
ENSG00000176148	-1.523	1.132e-30	1.039e-29	TCP11L1
ENSG00000176165	-1.698	0.002865	0.005364	FOXG1
ENSG00000176170	1.037	1.215e-05	2.914e-05	SPHK1
ENSG00000176182	-1.364	2.389e-07	6.642e-07	MYPOP
ENSG00000176208	-2.218	3.961e-54	7.934e-53	ATAD5
ENSG00000176222	-1.216	0.02641	0.04263	ZNF404
ENSG00000176225	-1.023	2.364e-10	8.141e-10	RTTN
ENSG00000176273	-1.551	1.088e-23	7.432e-23	SLC35G1
ENSG00000176274	2.51	2.032e-24	1.436e-23	SLC25A53

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ENSG00000176349	2.487	0.002087	0.003992	AC110781.3
ENSG00000176383	1.481	3.588e-05	8.264e-05	B3GNT4
ENSG00000176387	-2.152	3.591e-10	1.221e-09	HSD11B2
ENSG00000176396	-1.765	6.232e-14	2.66e-13	EID2
ENSG00000176399	-1.537	0.003098	0.005777	DMRTA1
ENSG00000176401	-1.628	0.006464	0.01153	EID2B
ENSG00000176402	2.673	0.01629	0.02728	GJC3
ENSG00000176407	1.065	1.14e-11	4.268e-11	KCMF1
ENSG00000176410	-1.165	1.135e-07	3.235e-07	DNAJC30
ENSG00000176422	-1.553	1.187e-11	4.44e-11	SPRYD4
ENSG00000176444	-1.321	1.026e-24	7.335e-24	CLK2
ENSG00000176454	-1.91	2.872e-13	1.183e-12	LPCAT4
ENSG00000176472	-1.768	0.000209	0.0004466	ZNF575
ENSG00000176473	-1.211	9.289e-05	0.000206	WDR25
ENSG00000176531	1.088	7.998e-14	3.395e-13	PHLDB3
ENSG00000176532	-4.061	5.295e-94	3.075e-92	PRR15
ENSG00000176542	1.386	7.309e-16	3.439e-15	KIAA2018
ENSG00000176563	2.364	3.37e-15	1.534e-14	CNTD1
ENSG00000176595	-1.51	1.195e-05	2.869e-05	KBTBD11
ENSG00000176601	3.537	0.006849	0.01218	MAP3K19
ENSG00000176619	-1.658	9.647e-46	1.536e-44	LMNB2
ENSG00000176697	-1.228	1.722e-05	4.075e-05	BDNF
ENSG00000176714	2.082	8.553e-31	7.901e-30	CCDC121
ENSG00000176715	-1.671	2.745e-29	2.392e-28	ACSF3
ENSG00000176720	-2.839	2.674e-58	6.099e-57	BOK
ENSG00000176753	-3.131	0.00518	0.009361	C15orf56
ENSG00000176771	3.529	0.005416	0.009767	NCKAP5
ENSG00000176834	-1.867	6.038e-38	7.491e-37	VSIG10
ENSG00000176853	1.198	5.448e-49	9.555e-48	FAM91A1
ENSG00000176884	-2.267	5.244e-32	5.124e-31	GRIN1
ENSG00000176890	-1.165	7.032e-17	3.483e-16	TYMS
ENSG00000176903	-1.355	1.008e-19	5.742e-19	PNMA1
ENSG00000176907	-2.841	4.324e-36	4.972e-35	C8orf4
ENSG00000176909	-3.535	0.001179	0.002321	MAMSTR
ENSG00000176915	1.03	3.619e-20	2.103e-19	ANKLE2
ENSG00000176920	-1.571	0.0007417	0.001491	FUT2
ENSG00000176928	-1.041	0.0005771	0.001177	GCNT4
ENSG00000176945	-1.118	6.777e-10	2.261e-09	MUC20
ENSG00000176946	-1.059	1.033e-18	5.61e-18	THAP4
ENSG00000176974	-1.793	5.879e-22	3.71e-21	SHMT1
ENSG00000176988	2.6	0.0006969	0.001405	FMR1NB
ENSG00000176994	1.114	5.24e-11	1.884e-10	SMCR8
ENSG00000177045	-1.759	3.161e-08	9.371e-08	SIX5
ENSG00000177084	-1.092	4.541e-42	6.471e-41	POLE

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ENSG00000177106	-1.037	4.627e-16	2.2e-15	EPS8L2
ENSG00000177169	1.211	5.676e-28	4.673e-27	ULK1
ENSG00000177181	-2.592	3.497e-19	1.944e-18	RIMKLA
ENSG00000177200	-2.086	1.754e-41	2.453e-40	CHD9
ENSG00000177225	-2.417	1.791e-48	3.087e-47	PDDC1
ENSG00000177239	-1.556	2.132e-14	9.31e-14	MAN1B1
ENSG00000177303	-2.944	2.665e-38	3.338e-37	CASKIN2
ENSG00000177335	-1.807	1.413e-19	8.002e-19	C8orf31
ENSG00000177352	-2.391	4.588e-15	2.076e-14	CCDC71
ENSG00000177370	-2.444	2.05e-47	3.441e-46	TIMM22
ENSG00000177380	-1.375	2.099e-08	6.298e-08	PPFIA3
ENSG00000177383	-1.533	1.286e-10	4.503e-10	MAGEF1
ENSG00000177409	-1.243	2.103e-08	6.311e-08	SAMD9L
ENSG00000177427	-1.923	3.994e-08	1.175e-07	MIEF2
ENSG00000177453	1.538	0.006595	0.01175	NIM1
ENSG00000177459	-1.208	1.315e-05	3.147e-05	C8orf47
ENSG00000177464	3.453	0.003452	0.006387	GPR4
ENSG00000177465	-3.228	3.975e-29	3.448e-28	ACOT4
ENSG00000177483	2.061	2.084e-05	4.898e-05	RBM44
ENSG00000177485	-1.32	1.234e-27	1.001e-26	ZBTB33
ENSG00000177494	-4.954	6.431e-48	1.091e-46	ZBED2
ENSG00000177508	-3.566	8.249e-92	4.555e-90	IRX3
ENSG00000177542	-2.066	6.59e-32	6.398e-31	SLC25A22
ENSG00000177548	-1.172	3.278e-11	1.193e-10	RABEP2
ENSG00000177565	-1.047	2.827e-28	2.35e-27	TBL1XR1
ENSG00000177570	-1.878	3.63e-50	6.567e-49	SAMD12
ENSG00000177575	5.889	1.122e-18	6.087e-18	CD163
ENSG00000177595	-1.258	9.288e-10	3.078e-09	PIDD
ENSG00000177602	-1.191	2.408e-10	8.283e-10	GSG2
ENSG00000177606	1.967	1.429e-104	1.021e-102	JUN
ENSG00000177614	4.92	1.097e-06	2.888e-06	PGBD5
ENSG00000177669	2.091	0.00282	0.005287	MBOAT4
ENSG00000177688	4.082	3.317e-08	9.819e-08	SUMO4
ENSG00000177692	-1.489	0.009742	0.01691	DNAJC28
ENSG00000177700	-1.025	0.0002207	0.0004706	POLR2L
ENSG00000177706	-2.684	1.135e-46	1.869e-45	FAM20C
ENSG00000177732	-3.327	2.72e-98	1.697e-96	SOX12
ENSG00000177764	-1.683	1.796e-34	1.953e-33	ZCCHC3
ENSG00000177791	-1.307	0.007333	0.01297	MYOZ1
ENSG00000177830	-1.021	9.18e-06	2.228e-05	CHID1
ENSG00000177842	-3.55	9.032e-28	7.371e-27	ZNF620
ENSG00000177854	-2.624	1.92e-11	7.098e-11	TMEM187
ENSG00000177873	-4.214	8.24e-34	8.656e-33	ZNF619
ENSG00000177932	-2.045	0.01708	0.02852	ZNF354C

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ENSG00000177943	1.485	7.378e-05	0.000165	MAMDC4
ENSG00000177946	-1.634	6.805e-20	3.906e-19	CENPBD1
ENSG00000177963	-1.05	3.968e-15	1.8e-14	RIC8A
ENSG00000177971	-3.451	1.989e-60	4.931e-59	IMP3
ENSG00000178021	3.546	1.59e-06	4.12e-06	TSPYL6
ENSG00000178026	-1.451	0.009949	0.01725	FAM211B
ENSG00000178028	1.234	2.734e-29	2.384e-28	DMAP1
ENSG00000178033	2.609	0.007184	0.01273	FAM26E
ENSG00000178053	1.194	4.21e-22	2.675e-21	MLF1
ENSG00000178074	-2.096	3.009e-35	3.368e-34	C2orf69
ENSG00000178075	-2.705	2.42e-35	2.719e-34	GRAMD1C
ENSG00000178096	-3.241	7.252e-13	2.912e-12	BOLA1
ENSG00000178150	1.791	2.81e-40	3.749e-39	ZNF114
ENSG00000178163	-1.054	3.363e-18	1.783e-17	ZNF518B
ENSG00000178184	1.114	1.085e-10	3.82e-10	PARD6G
ENSG00000178188	-1.75	2.204e-27	1.769e-26	SH2B1
ENSG00000178202	-2.359	6.494e-99	4.098e-97	KDELC2
ENSG00000178234	-1.816	3.039e-55	6.266e-54	GALNT11
ENSG00000178252	-2.084	2.032e-26	1.568e-25	WDR6
ENSG00000178279	3.065	0.03109	0.04952	TNP2
ENSG00000178301	-4.849	3.628e-11	1.317e-10	AQP11
ENSG00000178338	-1.496	2.46e-13	1.018e-12	ZNF354B
ENSG00000178342	3.523	5.766e-08	1.677e-07	KCNG2
ENSG00000178343	3.122	0.0228	0.0372	SHISA3
ENSG00000178381	5.512	0	0	ZFAND2A
ENSG00000178397	-2.642	4.606e-30	4.115e-29	FAM220A
ENSG00000178401	-2.486	1.547e-05	3.676e-05	DNAJC22
ENSG00000178409	-2.689	2.748e-63	7.381e-62	BEND3
ENSG00000178445	-1.455	0.0001299	0.0002834	GLDC
ENSG00000178460	-1.991	0.0001054	0.0002327	MCMDC2
ENSG00000178531	-2.061	3.178e-17	1.601e-16	CTXN1
ENSG00000178597	-1.858	0.009744	0.01691	PSAPL1
ENSG00000178607	2.706	1.826e-150	2.975e-148	ERN1
ENSG00000178685	-3.219	1.819e-27	1.463e-26	PARP10
ENSG00000178695	-1.633	2.101e-06	5.375e-06	KCTD12
ENSG00000178700	-3.324	1.046e-37	1.286e-36	DHFRL1
ENSG00000178718	-4.873	4.185e-95	2.482e-93	RPP25
ENSG00000178722	5.418	6e-08	1.741e-07	C5orf64
ENSG00000178726	-2.895	3.276e-32	3.224e-31	THBD
ENSG00000178761	-1.515	1.366e-11	5.086e-11	FAM219B
ENSG00000178773	-1.638	7.299e-33	7.385e-32	CPNE7
ENSG00000178789	3.288	0.008229	0.01445	CD300LB
ENSG00000178802	-1.383	6.616e-11	2.362e-10	MPI
ENSG00000178814	-1.158	1.517e-05	3.609e-05	OPLAH

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ENSG00000178826	-2.559	1.142e-79	4.632e-78	TMEM139
ENSG00000178913	1.442	6.905e-35	7.606e-34	TAF7
ENSG00000178917	-2.132	3.569e-07	9.792e-07	ZNF852
ENSG00000178919	-4.386	2.14e-31	2.036e-30	FOXE1
ENSG00000178921	-1.562	1.035e-19	5.891e-19	PFAS
ENSG00000178927	-1.886	8.684e-54	1.731e-52	C17orf62
ENSG00000178935	-1.714	2.122e-34	2.301e-33	ZNF552
ENSG00000178966	-2.121	8.212e-45	1.271e-43	RMI1
ENSG00000178971	-2.648	8.95e-56	1.885e-54	CTC1
ENSG00000178974	-1.012	4.954e-15	2.234e-14	FBXO34
ENSG00000178996	-3.417	2.71e-69	8.504e-68	SNX18
ENSG00000178999	-3.215	1.528e-106	1.12e-104	AURKB
ENSG00000179021	1.043	8.483e-16	3.975e-15	C3orf38
ENSG00000179023	-3.159	0.007023	0.01247	KLHDC7A
ENSG00000179029	-2.039	1.556e-23	1.053e-22	TMEM107
ENSG00000179038	2.881	0.02439	0.03957	AP001885.1
ENSG00000179041	-2.624	4.165e-75	1.526e-73	RRS1
ENSG00000179046	2.185	1.146e-42	1.66e-41	TRIML2
ENSG00000179111	-3.151	1.697e-13	7.094e-13	HES7
ENSG00000179119	1.424	2.236e-64	6.235e-63	SPTY2D1
ENSG00000179148	2.669	1.564e-46	2.554e-45	ALOXE3
ENSG00000179163	-1.06	7.075e-12	2.677e-11	FUCA1
ENSG00000179168	4.51	4.387e-16	2.09e-15	GGN
ENSG00000179178	-2.042	2.778e-25	2.043e-24	TMEM125
ENSG00000179240	-4.045	7.338e-27	5.77e-26	RP11-111M22.2
ENSG00000179241	-1.169	1.682e-27	1.355e-26	LDLRAD3
ENSG00000179270	3.09	6.137e-05	0.0001385	C2orf71
ENSG00000179292	3.913	0.001982	0.003802	TMEM151A
ENSG00000179294	-2.426	4.548e-21	2.761e-20	C17orf96
ENSG00000179299	-2.748	2.43e-13	1.006e-12	NSUN7
ENSG00000179314	-2.422	1.841e-22	1.187e-21	WSCD1
ENSG00000179331	3.29	0.01266	0.0216	RAB39A
ENSG00000179335	1.261	2.488e-28	2.076e-27	CLK3
ENSG00000179348	-1.85	3.542e-51	6.555e-50	GATA2
ENSG00000179361	1.034	5.487e-11	1.969e-10	ARID3B
ENSG00000179363	3.465	0.004375	0.007983	TMEM31
ENSG00000179364	-1.356	6.664e-22	4.196e-21	PACS2
ENSG00000179387	-1.332	7.59e-28	6.221e-27	ELMOD2
ENSG00000179388	6.022	2.162e-73	7.562e-72	EGR3
ENSG00000179403	-2.219	3.519e-31	3.305e-30	VWA1
ENSG00000179409	-1.857	2.902e-80	1.2e-78	GEMIN4
ENSG00000179431	-4.321	1.225e-72	4.214e-71	FJX1
ENSG00000179454	1.088	2.37e-20	1.389e-19	KLHL28
ENSG00000179477	2.216	0.005571	0.01003	ALOX12B

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ENSG00000179520	4.201	1.595e-07	4.499e-07	SLC17A8
ENSG00000179546	-1.349	1.379e-08	4.185e-08	HTR1D
ENSG00000179562	1.274	9.151e-13	3.657e-12	GCC1
ENSG00000179564	4.179	8.152e-09	2.525e-08	LSMEM2
ENSG00000179580	2.564	0.01982	0.03271	RNF151
ENSG00000179598	-1.777	1.337e-18	7.231e-18	PLD6
ENSG00000179604	-2.294	4.578e-36	5.26e-35	CDC42EP4
ENSG00000179627	-3.269	1.5e-17	7.675e-17	ZBTB42
ENSG00000179632	-1.046	8.443e-30	7.491e-29	MAF1
ENSG00000179673	3.314	0.01437	0.0243	RPRML
ENSG00000179674	1.989	3.77e-35	4.197e-34	ARL14
ENSG00000179715	-2.054	5.314e-11	1.91e-10	PCED1B
ENSG00000179761	2.592	0.004174	0.007637	PIPOX
ENSG00000179820	1.754	1.662e-18	8.948e-18	MYADM
ENSG00000179837	-1.052	2.146e-19	1.2e-18	RBM15B
ENSG00000179841	-1.019	0.001633	0.003165	AKAP5
ENSG00000179862	-2.74	9.425e-11	3.327e-10	CITED4
ENSG00000179869	2.393	1.654e-05	3.919e-05	ABCA13
ENSG00000179886	-2.673	1.821e-14	7.982e-14	TIGD5
ENSG00000179902	3.171	0.01088	0.01874	C1orf194
ENSG00000179913	-2.687	4.046e-97	2.497e-95	B3GNT3
ENSG00000179933	-2.399	1.964e-67	5.952e-66	C14orf119
ENSG00000179954	1.797	4.74e-08	1.386e-07	SSC5D
ENSG00000179958	-2.277	4.839e-28	3.993e-27	DCTPP1
ENSG00000179979	-1.67	6.139e-08	1.78e-07	CRIPAK
ENSG00000179981	-2.325	2.262e-22	1.452e-21	TSHZ1
ENSG00000180011	-4.114	2.261e-108	1.717e-106	ZADH2
ENSG00000180035	-3.437	1.066e-52	2.06e-51	ZNF48
ENSG00000180043	4.947	9.744e-07	2.579e-06	FAM71E2
ENSG00000180061	3.05	0.01676	0.02801	TMEM150B
ENSG00000180071	-1.624	5.457e-10	1.832e-09	ANKRD18A
ENSG00000180089	-2.434	1.188e-28	1.009e-27	TMEM86B
ENSG00000180096	1.27	0.01082	0.01865	SEPT1
ENSG00000180185	-1.604	1.853e-24	1.313e-23	FAHD1
ENSG00000180245	1.955	0.0004452	0.000918	RRH
ENSG00000180257	-1.172	0.008093	0.01423	ZNF816
ENSG00000180304	-1.294	4.44e-09	1.4e-08	OAZ2
ENSG00000180316	3.017	9.182e-09	2.827e-08	PNPLA1
ENSG00000180332	3.072	0.01318	0.02241	KCTD4
ENSG00000180336	2.739	5.913e-18	3.099e-17	C17orf104
ENSG00000180340	-4.45	1.642e-65	4.729e-64	FZD2
ENSG00000180346	-3.703	5.753e-59	1.338e-57	TIGD2
ENSG00000180353	2.286	0.0002165	0.0004623	HCLS1
ENSG00000180376	-1.808	1.947e-19	1.094e-18	CCDC66

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ENSG00000180423	-2.253	4.372e-16	2.084e-15	HARB11
ENSG00000180432	1.229	0.0002996	0.0006301	CYP8B1
ENSG00000180438	3.155	0.02353	0.03829	TPRXL
ENSG00000180447	-2.648	2.947e-06	7.454e-06	GAS1
ENSG00000180448	-1.724	6.793e-37	8.064e-36	HMHA1
ENSG00000180479	-1.548	0.003552	0.006562	ZNF571
ENSG00000180488	-1.008	1.433e-16	6.984e-16	FAM73A
ENSG00000180530	-2.252	4.551e-102	3.131e-100	NRIP1
ENSG00000180535	2.772	7.212e-05	0.0001615	BHLHA15
ENSG00000180537	-1.79	0.002117	0.004043	RNF182
ENSG00000180543	-2.664	9.3e-53	1.799e-51	TSPYL5
ENSG00000180573	-1.149	1.129e-06	2.969e-06	HIST1H2AC
ENSG00000180592	-3.509	1.036e-08	3.176e-08	SKIDA1
ENSG00000180596	-1.004	0.0136	0.02308	HIST1H2BC
ENSG00000180611	-1.779	2.81e-19	1.567e-18	MB21D2
ENSG00000180626	-1.527	6.335e-17	3.146e-16	ZNF594
ENSG00000180638	-2.01	2.568e-05	5.986e-05	SLC47A2
ENSG00000180694	-1.979	1.631e-46	2.661e-45	TMEM64
ENSG00000180730	4.739	4.141e-06	1.036e-05	SHISA2
ENSG00000180739	-5.666	2.936e-10	1.005e-09	S1PR5
ENSG00000180758	-2.255	7.089e-28	5.816e-27	GPR157
ENSG00000180777	5.05	3.644e-10	1.238e-09	ANKRD30B
ENSG00000180806	-1.906	1.438e-09	4.7e-09	HOXC9
ENSG00000180815	3.505	0.008629	0.0151	MAP3K15
ENSG00000180818	-1.443	0.0002554	0.0005404	HOXC10
ENSG00000180822	-1.497	1.204e-21	7.511e-21	PSMG4
ENSG00000180834	-3.522	4.03e-22	2.563e-21	MAP6D1
ENSG00000180855	-1.743	0.01285	0.02188	ZNF443
ENSG00000180871	4.893	2.561e-06	6.509e-06	CXCR2
ENSG00000180875	2.513	0.007598	0.01342	GREM2
ENSG00000180881	1.197	0.0006989	0.001409	CAPS2
ENSG00000180884	-3.474	4.716e-10	1.59e-09	ZNF792
ENSG00000180891	-1.15	7.473e-11	2.656e-10	CUEDC1
ENSG00000180901	-1.348	6.986e-24	4.818e-23	KCTD2
ENSG00000180902	-2.335	1.733e-64	4.841e-63	D2HGDH
ENSG00000180921	-1.674	2.415e-63	6.508e-62	FAM83H
ENSG00000180938	-2.361	0.000364	0.0007586	ZNF572
ENSG00000180953	-1.476	1.874e-05	4.42e-05	ST20
ENSG00000180957	1.487	3.023e-57	6.677e-56	PITPNB
ENSG00000180964	-1.146	1.167e-13	4.916e-13	TCEAL8
ENSG00000180998	-1.697	2.665e-08	7.941e-08	GPR137C
ENSG00000181016	2.597	6.956e-13	2.797e-12	LSMEM1
ENSG00000181027	-1.198	1.11e-14	4.92e-14	FKRP
ENSG00000181031	-1.023	3.472e-08	1.026e-07	RPH3AL

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ENSG00000181035	-1.371	0.003457	0.006395	SLC25A42
ENSG00000181038	-1.377	8.603e-17	4.242e-16	METTL23
ENSG00000181090	-1.403	4.948e-34	5.251e-33	EHMT1
ENSG00000181104	-1.951	7.638e-06	1.866e-05	F2R
ENSG00000181191	-1.195	6.459e-25	4.657e-24	PJA1
ENSG00000181192	-1.236	7.558e-23	4.944e-22	DHTKD1
ENSG00000181220	1.096	3.948e-36	4.548e-35	ZNF746
ENSG00000181222	-2.408	8.145e-25	5.841e-24	POLR2A
ENSG00000181264	-2.971	6.617e-10	2.209e-09	TMEM136
ENSG00000181274	-2.528	8.048e-11	2.852e-10	FRAT2
ENSG00000181284	-1.332	1.671e-09	5.431e-09	TMEM102
ENSG00000181322	-1.839	0.008635	0.01511	NME9
ENSG00000181350	-1.246	4.719e-05	0.0001076	FAM211A
ENSG00000181355	-3.12	0.004527	0.008234	OFCC1
ENSG00000181378	2.207	0.0006651	0.001346	CCDC108
ENSG00000181392	-1.205	2.314e-10	7.976e-10	SYNE4
ENSG00000181396	-1.567	2.484e-21	1.527e-20	OGFOD3
ENSG00000181444	-1.063	0.007619	0.01345	ZNF467
ENSG00000181450	1.695	8.764e-37	1.035e-35	ZNF678
ENSG00000181464	1.118	0.01047	0.0181	CDRT1
ENSG00000181481	-2.498	3.996e-25	2.91e-24	RNF135
ENSG00000181513	-1.811	6.873e-12	2.602e-11	ACBD4
ENSG00000181523	-2.488	4.377e-49	7.701e-48	SGSH
ENSG00000181544	-2.358	4.148e-43	6.096e-42	FANCB
ENSG00000181610	-1.66	4.763e-45	7.402e-44	MRPS23
ENSG00000181619	-2.135	1.955e-18	1.048e-17	GPR135
ENSG00000181634	1.062	2.924e-10	1.001e-09	TNFSF15
ENSG00000181638	-2.033	4.09e-38	5.105e-37	ZFP41
ENSG00000181649	1.974	1.051e-56	2.275e-55	PHLDA2
ENSG00000181652	2.228	6.567e-12	2.489e-11	ATG9B
ENSG00000181690	-1.377	8.197e-07	2.18e-06	PLAG1
ENSG00000181722	2.789	4.369e-15	1.978e-14	ZBTB20
ENSG00000181751	-2.532	2.348e-58	5.37e-57	C5orf30
ENSG00000181754	-4.456	2.111e-59	5.056e-58	AMIGO1
ENSG00000181817	-3.192	2.96e-41	4.09e-40	LSM10
ENSG00000181830	-1.729	1.331e-13	5.595e-13	SLC35C1
ENSG00000181856	-2.946	0.01518	0.02556	SLC2A4
ENSG00000181873	-1.789	9.801e-31	9.025e-30	IBA57
ENSG00000181894	1.161	7.375e-10	2.456e-09	ZNF329
ENSG00000181904	-1.78	3.815e-35	4.244e-34	C5orf24
ENSG00000181915	-2.267	2.871e-25	2.109e-24	ADO
ENSG00000181924	-1.369	1.105e-23	7.546e-23	COA4
ENSG00000181938	-2.352	1.166e-28	9.908e-28	GINS3
ENSG00000182010	-2.112	4.06e-82	1.757e-80	RTKN2

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ENSG00000182013	5.415	1.483e-08	4.489e-08	PNMAL1
ENSG00000182093	-1.111	2.758e-11	1.009e-10	WRB
ENSG00000182095	-1.035	1.959e-31	1.867e-30	TNRC18
ENSG00000182107	-2.138	1.221e-79	4.94e-78	TMEM30B
ENSG00000182108	-2.341	1.557e-15	7.188e-15	DEXI
ENSG00000182141	-1.372	0.0179	0.02978	ZNF708
ENSG00000182154	-1.372	1.973e-13	8.212e-13	MRPL41
ENSG00000182156	2.561	0.01181	0.02023	ENPP7
ENSG00000182173	-2.733	1.253e-50	2.291e-49	TSEN54
ENSG00000182175	-2.833	5.848e-11	2.095e-10	RGMA
ENSG00000182180	-1.844	2.554e-21	1.568e-20	MRPS16
ENSG00000182197	1.114	4.052e-32	3.977e-31	EXT1
ENSG00000182230	3.879	0.0004749	0.0009764	FAM153B
ENSG00000182253	-3.307	2.085e-54	4.212e-53	SYNM
ENSG00000182257	-3.398	0.00151	0.002938	C22orf26
ENSG00000182261	1.487	4.973e-06	1.233e-05	NLRP10
ENSG00000182263	-1.789	5.688e-17	2.831e-16	FIGN
ENSG00000182264	1.78	0.008944	0.01561	IZUMO1
ENSG00000182272	-1.817	6.144e-33	6.239e-32	B4GALNT4
ENSG00000182319	-3.611	1.017e-39	1.336e-38	SGK223
ENSG00000182325	-1.295	7.454e-18	3.88e-17	FBXL6
ENSG00000182327	-3.012	0.007246	0.01283	GLTPD2
ENSG00000182359	-1.925	0.0001785	0.000384	KBTD3
ENSG00000182372	1.289	4.869e-15	2.197e-14	CLN8
ENSG00000182389	1.913	1.53e-07	4.32e-07	CACNB4
ENSG00000182450	2.046	0.01393	0.0236	KCNK4
ENSG00000182459	3.58	1.274e-11	4.753e-11	TEX19
ENSG00000182489	1.612	2.163e-13	8.983e-13	XKRX
ENSG00000182500	-2.385	3.863e-36	4.456e-35	ORAI1
ENSG00000182511	3.447	0.000254	0.0005378	FES
ENSG00000182512	-1.004	1.121e-15	5.229e-15	GLRX5
ENSG00000182534	1.486	4.786e-06	1.188e-05	MXRA7
ENSG00000182541	-1.418	1.315e-17	6.749e-17	LIMK2
ENSG00000182544	-2.25	1.894e-35	2.135e-34	MFSD5
ENSG00000182551	-1.003	1.251e-11	4.673e-11	ADI1
ENSG00000182580	-1.092	1.189e-11	4.445e-11	EPHB3
ENSG00000182613	3.144	0.02664	0.04298	OR2V2
ENSG00000182676	3.304	0.006761	0.01203	PPP1R27
ENSG00000182685	-1.157	0.03035	0.04842	BRICD5
ENSG00000182687	3.426	0.0005375	0.001099	GALR2
ENSG00000182700	-3.384	5.043e-31	4.695e-30	IGIP
ENSG00000182704	-3.932	4.843e-188	1.378e-185	TSKU
ENSG00000182742	-3.561	1.285e-05	3.076e-05	HOXB4
ENSG00000182749	-3.265	3.959e-72	1.337e-70	PAQR7

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ENSG00000182759	5.155	2.736e-13	1.13e-12	MAFA
ENSG00000182791	-2.248	0.03015	0.04814	CCDC87
ENSG00000182810	-2.64	5.244e-33	5.342e-32	DDX28
ENSG00000182836	-3.458	1.632e-30	1.487e-29	PLCXD3
ENSG00000182851	5.288	4.562e-07	1.239e-06	GPIHBP1
ENSG00000182870	4.051	8.331e-116	7.284e-114	GALNT9
ENSG00000182885	1.585	0.02141	0.0351	GPR97
ENSG00000182896	3.077	0.01485	0.02504	TMEM95
ENSG00000182901	-2.273	1.76e-23	1.189e-22	RGS7
ENSG00000182903	1.197	5.913e-10	1.98e-09	ZNF721
ENSG00000182909	-2.976	2.969e-25	2.18e-24	LENG9
ENSG00000182912	2.676	0.0005285	0.001082	C21orf90
ENSG00000182923	-1.167	1.558e-12	6.139e-12	CEP63
ENSG00000182944	1.316	3.891e-56	8.278e-55	EWSR1
ENSG00000182952	-1.313	1.623e-10	5.637e-10	HMGNA4
ENSG00000182983	1.211	0.000209	0.0004465	ZNF662
ENSG00000182986	-1.744	1.136e-09	3.743e-09	ZNF320
ENSG00000183018	-2.416	1.016e-55	2.132e-54	SPNS2
ENSG00000183023	-3.155	1.79e-14	7.849e-14	SLC8A1
ENSG00000183048	-1.74	3.392e-42	4.846e-41	SLC25A10
ENSG00000183060	-1.022	0.0002541	0.000538	LYSMD4
ENSG00000183072	-1.352	1.705e-06	4.405e-06	NKX2-5
ENSG00000183077	-1.027	3.79e-06	9.499e-06	AFMID
ENSG00000183087	-1.658	1.745e-18	9.386e-18	GAS6
ENSG00000183111	-1.037	1.369e-06	3.571e-06	ARHGEF37
ENSG00000183117	-2.377	0.001643	0.003183	CSMD1
ENSG00000183137	-2.188	8.386e-20	4.791e-19	CEP57L1
ENSG00000183150	-2.328	3.51e-10	1.195e-09	GPR19
ENSG00000183154	3.448	0.003382	0.006264	RP11-863K10.7
ENSG00000183160	2.632	0.03123	0.04973	TMEM119
ENSG00000183161	-2.173	3.686e-25	2.687e-24	FANCF
ENSG00000183186	-2.6	3.529e-06	8.869e-06	C2CD4C
ENSG00000183196	-3.274	0.004631	0.008414	CHST6
ENSG00000183246	-3.485	2.209e-05	5.18e-05	RIMBP3C
ENSG00000183250	-2.331	6.046e-07	1.625e-06	C21orf67
ENSG00000183281	2.347	5.09e-08	1.485e-07	PLGLB1
ENSG00000183287	-1.874	8.997e-24	6.177e-23	CCBE1
ENSG00000183309	-1.393	3.295e-34	3.537e-33	ZNF623
ENSG00000183317	-2.112	3.622e-08	1.069e-07	EPHA10
ENSG00000183323	-1.867	4.143e-32	4.065e-31	CCDC125
ENSG00000183340	-1.974	7.42e-22	4.661e-21	JRKL
ENSG00000183354	1.394	1.712e-07	4.811e-07	KIAA2026
ENSG00000183395	-2.627	0.02646	0.0427	PMCH
ENSG00000183423	2.308	0.0007503	0.001508	LRIT3

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ENSG00000183426	-1.006	1.616e-08	4.883e-08	NPIPA1
ENSG00000183474	-1.263	1.15e-27	9.355e-27	GTF2H2C
ENSG00000183484	2.311	0.01841	0.03056	GPR132
ENSG00000183508	2.035	1.309e-37	1.602e-36	FAM46C
ENSG00000183513	-1.08	3.276e-12	1.264e-11	COA5
ENSG00000183520	1.262	1.171e-31	1.128e-30	UTP11L
ENSG00000183527	-1.091	2.103e-19	1.178e-18	PSMG1
ENSG00000183558	1.546	2.656e-06	6.737e-06	HIST2H2AA3
ENSG00000183562	1.671	0.0003259	0.000683	AC131971.1
ENSG00000183570	1.961	0.0004403	0.0009089	PCBP3
ENSG00000183605	-1.105	5.689e-13	2.3e-12	SFXN4
ENSG00000183624	-1.975	1.868e-26	1.443e-25	HMCES
ENSG00000183665	-1.021	5.115e-09	1.607e-08	TRMT12
ENSG00000183671	-1.744	2.247e-06	5.736e-06	GPR1
ENSG00000183675	-1.682	3.427e-14	1.48e-13	PTPN20B
ENSG00000183688	1.89	1.892e-07	5.295e-07	FAM101B
ENSG00000183691	-5.334	3.527e-37	4.244e-36	NOG
ENSG00000183696	2.149	4.212e-76	1.585e-74	UPP1
ENSG00000183718	-2.048	6.117e-12	2.325e-11	TRIM52
ENSG00000183722	-1.586	0.001426	0.002783	LHFP
ENSG00000183723	-1.905	4.274e-37	5.12e-36	CMTM4
ENSG00000183741	-2.005	2.167e-48	3.715e-47	CBX6
ENSG00000183748	3.956	8.778e-12	3.303e-11	MRC1L1
ENSG00000183760	1.08	2.791e-09	8.93e-09	PAPL
ENSG00000183765	-1.331	1.144e-15	5.335e-15	CHEK2
ENSG00000183773	-2.816	5.894e-08	1.713e-07	AIFM3
ENSG00000183779	-1.87	4.696e-17	2.352e-16	ZNF703
ENSG00000183780	-1.317	1.219e-10	4.277e-10	SLC35F3
ENSG00000183785	1.802	0.0001132	0.0002489	TUBA8
ENSG00000183840	-2.094	1.537e-17	7.863e-17	GPR39
ENSG00000183853	-1.191	4.786e-29	4.132e-28	KIRREL
ENSG00000183856	-1.174	6.237e-28	5.127e-27	IQGAP3
ENSG00000183864	-1.665	5.766e-61	1.451e-59	TOB2
ENSG00000183876	-4.658	4.208e-23	2.786e-22	ARSI
ENSG00000183891	-1.701	1.164e-15	5.425e-15	TTC32
ENSG00000183914	-1.075	2.873e-14	1.247e-13	DNAH2
ENSG00000183921	3.214	0.01779	0.02961	SDR42E2
ENSG00000183943	-1.09	4.259e-15	1.93e-14	PRKX
ENSG00000183963	1.292	3.166e-25	2.319e-24	SMTN
ENSG00000183977	1.295	0.007438	0.01315	PP2D1
ENSG00000183978	-1.851	4.817e-19	2.655e-18	COA3
ENSG00000183979	2.93	1.229e-05	2.946e-05	NPB
ENSG00000184005	2.404	0.003073	0.005733	ST6GALNAC3
ENSG00000184012	-1.803	0.00642	0.01146	TMPRSS2

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ENSG00000184040	2.92	1.804e-34	1.96e-33	TMEM236
ENSG00000184056	-2.88	3.022e-33	3.1e-32	VPS33B
ENSG00000184058	1.805	0.01735	0.02893	TBX1
ENSG00000184083	-2.481	5.41e-19	2.975e-18	FAM120C
ENSG00000184108	3.402	0.004038	0.007403	TRIML1
ENSG00000184154	1.004	2.672e-12	1.037e-11	LRTOMT
ENSG00000184156	1.979	1.228e-12	4.867e-12	KCNQ3
ENSG00000184162	-2.42	1.258e-46	2.064e-45	NR2C2AP
ENSG00000184185	2.338	1.646e-16	7.989e-16	KCNJ12
ENSG00000184205	2.23	4.891e-32	4.787e-31	TSPYL2
ENSG00000184207	-2.749	4.682e-74	1.672e-72	PGP
ENSG00000184227	-2.411	4.636e-10	1.564e-09	ACOT1
ENSG00000184292	-2.004	9.029e-82	3.866e-80	TACSTD2
ENSG00000184305	-1.354	0.01474	0.02488	CCSER1
ENSG00000184307	-2.345	1.274e-18	6.898e-18	ZDHHC23
ENSG00000184313	3.141	1.375e-06	3.584e-06	MROH7
ENSG00000184343	-1.402	0.02674	0.04311	SRPK3
ENSG00000184349	-1.178	1.03e-13	4.355e-13	EFNA5
ENSG00000184363	-1.823	3.117e-33	3.197e-32	PKP3
ENSG00000184368	1.373	0.0272	0.0438	MAP7D2
ENSG00000184378	1.474	1.694e-08	5.115e-08	ACTRT3
ENSG00000184381	1.046	3.026e-08	8.976e-08	PLA2G6
ENSG00000184384	-2.637	9.161e-34	9.599e-33	MAML2
ENSG00000184436	-2.773	1.214e-51	2.284e-50	THAP7
ENSG00000184459	4.585	8.991e-06	2.184e-05	BPIFC
ENSG00000184465	-1.115	3.812e-19	2.113e-18	WDR27
ENSG00000184470	-1.024	1.174e-05	2.822e-05	TXNRD2
ENSG00000184489	-1.73	2.677e-10	9.183e-10	PTP4A3
ENSG00000184502	2.286	0.006418	0.01146	GAST
ENSG00000184508	-2.452	1.634e-23	1.105e-22	HDDC3
ENSG00000184517	-2.034	6.45e-24	4.456e-23	ZFP1
ENSG00000184564	-2.981	2.912e-14	1.264e-13	SLITRK6
ENSG00000184574	-2.341	2.345e-21	1.443e-20	LPAR5
ENSG00000184584	-1.545	1.35e-05	3.226e-05	TMEM173
ENSG00000184602	-2.145	2.209e-13	9.168e-13	SNN
ENSG00000184619	-1.9	0.00416	0.007614	KRBA2
ENSG00000184634	-1.069	1.114e-17	5.746e-17	MED12
ENSG00000184661	-2.277	3.944e-56	8.38e-55	CDCA2
ENSG00000184675	-2.215	4.365e-86	2.099e-84	AMER1
ENSG00000184677	1.103	2.288e-31	2.173e-30	ZBTB40
ENSG00000184702	-1.205	0.001945	0.003737	SEPT5
ENSG00000184708	-1.457	4.544e-22	2.879e-21	EIF4ENIF1
ENSG00000184709	-3.889	5.337e-13	2.16e-12	LRRC26
ENSG00000184716	3.969	0.0008828	0.001761	SERINC4

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ENSG00000184730	-1.32	0.003597	0.006642	APOBR
ENSG00000184743	-1.859	4.632e-40	6.146e-39	ATL3
ENSG00000184785	-2.099	1.28e-05	3.063e-05	SMIM10
ENSG00000184787	-1.193	7.367e-32	7.144e-31	UBE2G2
ENSG00000184788	-1.028	0.0008833	0.001761	SATL1
ENSG00000184838	-2.401	0.006376	0.01139	PRR16
ENSG00000184860	-2.797	2.185e-20	1.284e-19	SDR42E1
ENSG00000184886	-2.407	1.226e-53	2.425e-52	PIGW
ENSG00000184887	-1.245	4.082e-10	1.382e-09	BTBD6
ENSG00000184897	-4.073	4.435e-116	3.918e-114	H1FX
ENSG00000184898	-3.653	1.387e-25	1.037e-24	RBM43
ENSG00000184916	-3.25	5.55e-106	4.051e-104	JAG2
ENSG00000184922	-1.328	5.529e-12	2.107e-11	FMNL1
ENSG00000184937	4.007	0.0003774	0.0007851	WT1
ENSG00000184939	-2.072	1.57e-31	1.504e-30	ZFP90
ENSG00000184949	-2.453	5.278e-33	5.373e-32	FAM227A
ENSG00000184979	-1.378	2.584e-11	9.478e-11	USP18
ENSG00000184986	-2.811	0.01449	0.02448	TMEM121
ENSG00000184988	-1.834	5.492e-07	1.48e-06	TMEM106A
ENSG00000184990	-1.433	4.82e-09	1.517e-08	SIVA1
ENSG00000184992	-2.001	1.191e-33	1.24e-32	BRI3BP
ENSG00000185013	-3.397	0.002587	0.004882	NT5C1B
ENSG00000185019	1.181	5.786e-21	3.499e-20	UBOX5
ENSG00000185022	3.02	3.012e-75	1.109e-73	MAFF
ENSG00000185024	-2.885	9.568e-34	1.001e-32	BRF1
ENSG00000185038	-1.945	0.008006	0.01409	MROH2A
ENSG00000185085	-2.447	1.73e-62	4.58e-61	INTS5
ENSG00000185090	-2.59	5.289e-43	7.727e-42	MANEAL
ENSG00000185100	1.666	2.075e-07	5.792e-07	ADSSL1
ENSG00000185101	-1.383	9.144e-17	4.499e-16	ANO9
ENSG00000185105	3.723	0.002807	0.005265	MYADML2
ENSG00000185129	-2.235	8.951e-52	1.69e-50	PURA
ENSG00000185189	-1.343	2.549e-20	1.492e-19	NRBP2
ENSG00000185215	-2.495	1.07e-82	4.716e-81	TNFAIP2
ENSG00000185219	-2.519	2.653e-51	4.931e-50	ZNF445
ENSG00000185220	-2.325	1.209e-38	1.536e-37	PGBD2
ENSG00000185247	3.943	0.0008862	0.001767	MAGEA11
ENSG00000185252	-2.296	9.278e-24	6.365e-23	ZNF74
ENSG00000185272	-1.391	0.01477	0.02492	RBM11
ENSG00000185291	3.018	6.018e-10	2.014e-09	IL3RA
ENSG00000185304	2.66	7.489e-34	7.896e-33	RGPD2
ENSG00000185324	-1.239	8.036e-15	3.594e-14	CDK10
ENSG00000185332	-2.965	7.02e-13	2.822e-12	TMEM105
ENSG00000185338	2.174	1.022e-05	2.468e-05	SOCS1

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ENSG00000185340	-2.903	3.993e-56	8.473e-55	GAS2L1
ENSG00000185345	2.732	0.000148	0.0003209	PARK2
ENSG00000185347	-4.134	2.863e-30	2.582e-29	C14orf80
ENSG00000185361	-2.084	2.741e-41	3.794e-40	TNFAIP8L1
ENSG00000185379	-2.301	7.028e-12	2.66e-11	RAD51D
ENSG00000185386	-1.57	8.324e-11	2.948e-10	MAPK11
ENSG00000185436	-1.936	2.938e-13	1.208e-12	IFNLR1
ENSG00000185442	-2.55	2.104e-44	3.219e-43	FAM174B
ENSG00000185453	-1.523	5.638e-09	1.764e-08	C19orf68
ENSG00000185467	1.792	1.097e-14	4.864e-14	KPNA7
ENSG00000185479	2.038	1.824e-37	2.219e-36	KRT6B
ENSG00000185480	-1.263	1.632e-07	4.595e-07	PARPBP
ENSG00000185482	1.572	1.059e-07	3.024e-07	STAC3
ENSG00000185483	-2.364	1.953e-70	6.329e-69	ROR1
ENSG00000185504	-1.607	1.028e-16	5.041e-16	C17orf70
ENSG00000185513	-1.519	9.691e-14	4.102e-13	L3MBTL1
ENSG00000185515	-1.241	1.496e-23	1.014e-22	BRCC3
ENSG00000185527	2.422	1.648e-05	3.907e-05	PDE6G
ENSG00000185551	-2.781	2.368e-70	7.658e-69	NR2F2
ENSG00000185565	4.206	1.018e-08	3.124e-08	LSAMP
ENSG00000185585	-2.231	1.425e-30	1.302e-29	OLFML2A
ENSG00000185619	1.056	2.49e-25	1.836e-24	PCGF3
ENSG00000185621	-1.73	6.85e-23	4.493e-22	LMLN
ENSG00000185630	-1.645	9.171e-25	6.568e-24	PBX1
ENSG00000185633	2.361	0.0002053	0.0004389	NDUFA4L2
ENSG00000185640	2.586	0.009606	0.01669	KRT79
ENSG00000185670	2.029	0.0274	0.04407	ZBTB3
ENSG00000185697	-2.322	4.829e-29	4.168e-28	MYBL1
ENSG00000185722	-1.345	3.142e-47	5.258e-46	ANKFY1
ENSG00000185728	1.121	5.148e-18	2.705e-17	YTHDF3
ENSG00000185730	-2.356	2.754e-22	1.763e-21	ZNF696
ENSG00000185745	-3.237	4.995e-13	2.027e-12	IFIT1
ENSG00000185774	-1.091	0.0173	0.02886	KCNIP4
ENSG00000185792	3.133	7.332e-21	4.399e-20	NLRP9
ENSG00000185803	-1.305	3.732e-12	1.435e-11	SLC52A2
ENSG00000185813	-1.244	2.315e-15	1.06e-14	PCYT2
ENSG00000185818	-3.664	1.072e-23	7.331e-23	NAT8L
ENSG00000185829	-1.38	1.422e-33	1.476e-32	ARL17A
ENSG00000185875	-3.144	4.093e-48	6.968e-47	THNSL1
ENSG00000185880	-2.4	3.255e-14	1.409e-13	TRIM69
ENSG00000185883	1.021	1.599e-07	4.51e-07	ATP6V0C
ENSG00000185909	1.773	0.02053	0.03379	KLHDC8B
ENSG00000185920	-1.933	3.586e-33	3.67e-32	PTCH1
ENSG00000185924	-5.65	7.111e-16	3.348e-15	RTN4RL1

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ENSG00000185928	-3.221	6.364e-51	1.173e-49	PAGR1
ENSG00000185947	1.791	5.642e-33	5.733e-32	ZNF267
ENSG00000185950	1.1	1.295e-23	8.811e-23	IRS2
ENSG00000185958	-2.309	0.02174	0.03562	FAM186A
ENSG00000185989	-2.341	1.041e-37	1.28e-36	RASA3
ENSG00000185990	-4.209	4.54e-43	6.661e-42	F8A3
ENSG00000186001	-1.223	2.707e-30	2.444e-29	LRCH3
ENSG00000186007	1.49	0.001772	0.00342	LEMD1
ENSG00000186017	-2.082	1.369e-27	1.106e-26	ZNF566
ENSG00000186026	1.143	4.91e-06	1.218e-05	ZNF284
ENSG00000186073	-1.075	7.4e-21	4.437e-20	C15orf41
ENSG00000186104	-2.628	9.08e-21	5.422e-20	CYP2R1
ENSG00000186106	-3.098	6.264e-17	3.112e-16	ANKRD46
ENSG00000186111	-1.597	2.721e-27	2.177e-26	PIP5K1C
ENSG00000186115	2.353	5.895e-06	1.454e-05	CYP4F2
ENSG00000186185	-3.071	2.315e-118	2.195e-116	KIF18B
ENSG00000186187	-2.174	1.395e-56	3.01e-55	ZNRF1
ENSG00000186188	-2.858	1.943e-05	4.58e-05	FFAR4
ENSG00000186193	-2.91	4.339e-30	3.886e-29	SAPCD2
ENSG00000186204	1.178	0.01084	0.01868	CYP4F12
ENSG00000186205	-2.314	4.894e-60	1.201e-58	MARC1
ENSG00000186212	-3.688	5.413e-16	2.562e-15	SOWAHB
ENSG00000186222	-1.831	1.455e-14	6.4e-14	BLOC1S4
ENSG00000186260	-2.064	3.909e-28	3.231e-27	MKL2
ENSG00000186280	1.483	1.925e-06	4.95e-06	KDM4D
ENSG00000186281	-1.583	8.765e-09	2.704e-08	GPAT2
ENSG00000186283	-1.512	5.04e-25	3.658e-24	TOR3A
ENSG00000186318	-1.799	1.278e-27	1.035e-26	BACE1
ENSG00000186340	-1.549	0.02357	0.03834	THBS2
ENSG00000186350	-2.827	2.419e-23	1.625e-22	RXRA
ENSG00000186352	3.047	2.656e-29	2.319e-28	ANKRD37
ENSG00000186354	1.373	0.002703	0.005087	C9orf47
ENSG00000186364	1.245	0.001956	0.003756	NUDT17
ENSG00000186399	-2.095	0.01133	0.01947	GOLGA8R
ENSG00000186409	-1.071	9.417e-05	0.0002087	CCDC30
ENSG00000186432	1.468	1.578e-71	5.257e-70	KPNA4
ENSG00000186446	-2.058	0.001653	0.0032	ZNF501
ENSG00000186472	-2.25	3.504e-25	2.557e-24	PCLO
ENSG00000186474	3.253	0.006908	0.01227	KLK12
ENSG00000186480	2.364	4.949e-88	2.487e-86	INSIG1
ENSG00000186493	-1.178	0.0001265	0.0002763	C5orf38
ENSG00000186517	1.349	0.001753	0.003384	ARHGAP30
ENSG00000186523	-2.104	1.495e-13	6.267e-13	FAM86B1
ENSG00000186529	1.305	1.133e-21	7.085e-21	CYP4F3

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ENSG00000186532	-2.696	9.519e-45	1.469e-43	SMYD4
ENSG00000186564	-3.989	4.393e-20	2.541e-19	FOXD2
ENSG00000186591	1.397	2.815e-77	1.094e-75	UBE2H
ENSG00000186603	-4.569	9.715e-47	1.603e-45	HPDL
ENSG00000186628	2.352	0.02116	0.03473	FSD2
ENSG00000186635	-1.235	5.011e-23	3.305e-22	ARAP1
ENSG00000186638	-2.356	4.149e-35	4.603e-34	KIF24
ENSG00000186642	1.637	5.241e-06	1.298e-05	PDE2A
ENSG00000186654	-1.054	5.05e-06	1.252e-05	PRR5
ENSG00000186665	-2.849	1.222e-22	7.935e-22	C17orf58
ENSG00000186687	-1.483	4.409e-30	3.947e-29	LYRM7
ENSG00000186714	4.177	1.253e-19	7.111e-19	CCDC73
ENSG00000186716	-1.492	3.133e-43	4.629e-42	BCR
ENSG00000186732	2.977	0.01899	0.03143	MPPED1
ENSG00000186767	-3.106	3.235e-196	1.025e-193	SPIN4
ENSG00000186787	-2.946	3.455e-16	1.656e-15	SPIN2B
ENSG00000186812	-2.015	0.003913	0.007185	ZNF397
ENSG00000186832	1.447	2.61e-23	1.749e-22	KRT16
ENSG00000186834	-1.685	1.134e-30	1.04e-29	HEXIM1
ENSG00000186847	4.17	5.644e-10	1.893e-09	KRT14
ENSG00000186854	2	0.008691	0.0152	TRABD2A
ENSG00000186866	1.056	7.153e-17	3.541e-16	POFUT2
ENSG00000186871	-3.458	7.124e-118	6.681e-116	ERCC6L
ENSG00000186907	-1.281	0.001907	0.003667	RTN4RL2
ENSG00000186918	-1.465	5.595e-26	4.261e-25	ZNF395
ENSG00000186919	3.339	3.415e-07	9.382e-07	ZACN
ENSG00000186951	-1.011	2.617e-10	8.981e-10	PPARA
ENSG00000187010	2.806	1.208e-06	3.168e-06	RHD
ENSG00000187024	-1.322	1.768e-07	4.96e-07	PTRH1
ENSG00000187049	-1.708	6.524e-14	2.781e-13	TMEM216
ENSG00000187066	1.394	2.333e-12	9.096e-12	AP003068.6
ENSG00000187097	-1.004	1.844e-14	8.077e-14	ENTPD5
ENSG00000187123	-2.052	5.212e-12	1.988e-11	LYPD6
ENSG00000187147	-1.065	1.386e-23	9.409e-23	RNF220
ENSG00000187185	2.316	0.00229	0.00435	CTD-260009.1
ENSG00000187187	1.17	0.0141	0.02389	ZNF546
ENSG00000187193	3.856	1.48e-89	7.669e-88	MT1X
ENSG00000187210	-2.338	5.404e-20	3.116e-19	GCNT1
ENSG00000187240	-1.147	6.429e-12	2.438e-11	DYNC2H1
ENSG00000187456	-1.318	0.0001794	0.0003857	RDM1
ENSG00000187479	3.404	0.003786	0.00697	C11orf96
ENSG00000187486	-1.849	0.026	0.04201	KCNJ11
ENSG00000187492	-2.763	0.01693	0.02828	CDHR4
ENSG00000187498	2.22	1.192e-141	1.626e-139	COL4A1

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ENSG00000187513	3.299	0.006793	0.01208	GJA4
ENSG00000187535	-1.138	7.722e-12	2.915e-11	IFT140
ENSG00000187550	-1.935	2.515e-19	1.404e-18	SBK2
ENSG00000187554	-2.258	0.000854	0.001706	TLR5
ENSG00000187566	-1.795	0.0003722	0.0007745	NHLRC1
ENSG00000187583	-2.366	5.989e-18	3.137e-17	PLEKHN1
ENSG00000187608	-1.028	0.000541	0.001106	ISG15
ENSG00000187626	-2.07	7.986e-13	3.204e-12	ZKSCAN4
ENSG00000187627	2.419	3.357e-19	1.867e-18	RGPD1
ENSG00000187634	-1.096	0.01166	0.02	SAMD11
ENSG00000187672	4.077	1.223e-13	5.148e-13	ERC2
ENSG00000187676	-1.931	1.721e-28	1.448e-27	B3GALTL
ENSG00000187695	2.392	7.023e-05	0.0001575	RP11-723O4.6
ENSG00000187713	-2.745	4.063e-59	9.512e-58	TMEM203
ENSG00000187736	-1.054	1.674e-05	3.966e-05	NHEJ1
ENSG00000187741	-1.376	1.358e-24	9.68e-24	FANCA
ENSG00000187775	1.717	5.928e-31	5.509e-30	DNAH17
ENSG00000187790	-2.917	3.099e-57	6.835e-56	FANCM
ENSG00000187792	-2.505	1.107e-23	7.551e-23	ZNF70
ENSG00000187796	-1.461	0.0001138	0.0002502	CARD9
ENSG00000187801	-1.46	8.45e-05	0.0001879	ZFP69B
ENSG00000187815	-2.223	1.553e-06	4.026e-06	ZFP69
ENSG00000187824	1.483	0.0001395	0.0003033	TMEM220
ENSG00000187862	2.474	0.02386	0.03876	TTC24
ENSG00000187867	-3.314	8.371e-26	6.318e-25	PALM3
ENSG00000187902	5.454	1.871e-52	3.601e-51	SHISA7
ENSG00000187944	-2.526	0.009231	0.01608	C2orf66
ENSG00000187951	-2.875	4.024e-68	1.239e-66	ARHGAP11B
ENSG00000187961	-2.435	6.346e-24	4.388e-23	KLHL17
ENSG00000187994	-1.043	0.008213	0.01443	RINL
ENSG00000188026	-1.097	6.106e-10	2.042e-09	RILPL1
ENSG00000188042	-2.485	4.407e-37	5.273e-36	ARL4C
ENSG00000188051	-3.171	0.00124	0.002435	TMEM221
ENSG00000188056	3.389	7.408e-23	4.848e-22	TREML4
ENSG00000188064	-2.102	4.836e-117	4.388e-115	WNT7B
ENSG00000188089	4.873	1.79e-06	4.614e-06	PLA2G4E
ENSG00000188095	-3.289	0.002789	0.005236	MESP2
ENSG00000188100	1.938	0.0001517	0.0003285	FAM25A
ENSG00000188107	-2.35	0.0004953	0.001017	EYS
ENSG00000188130	-2.371	4.497e-53	8.757e-52	MAPK12
ENSG00000188157	-1.124	2.103e-23	1.416e-22	AGRN
ENSG00000188167	-1.921	8.588e-11	3.038e-10	TMPPE
ENSG00000188175	4.89	5.907e-06	1.457e-05	HEPACAM2
ENSG00000188177	-1.085	1.503e-07	4.247e-07	ZC3H6

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ENSG00000188191	-2.396	3.59e-72	1.215e-70	PRKAR1B
ENSG00000188215	1.379	6.543e-12	2.48e-11	DCUN1D3
ENSG00000188223	-4.349	0.001011	0.002005	AC002398.9
ENSG00000188227	-2.433	0.006453	0.01151	ZNF793
ENSG00000188229	-1.593	1.022e-24	7.31e-24	TUBB4B
ENSG00000188242	-2.314	7.758e-05	0.0001732	CTD-2228K2.5
ENSG00000188263	3.269	0.000777	0.001559	IL17REL
ENSG00000188290	-1.513	1.05e-10	3.697e-10	HES4
ENSG00000188295	1.412	1.788e-19	1.007e-18	ZNF669
ENSG00000188306	-2.644	0.03059	0.04877	LRRIQ4
ENSG00000188316	-2.187	0.00109	0.002155	ENO4
ENSG00000188322	-4.149	1.403e-36	1.638e-35	SBK1
ENSG00000188368	-1.348	0.005586	0.01005	PRR19
ENSG00000188386	4.072	0.0006232	0.001266	PPP3R2
ENSG00000188396	3.481	4.571e-27	3.621e-26	TCTEX1D4
ENSG00000188425	2.78	0.008031	0.01413	NANOS2
ENSG00000188501	-1.696	0.02094	0.03439	LCTL
ENSG00000188505	-2.342	3.431e-25	2.508e-24	NCCRP1
ENSG00000188522	1.257	1.387e-38	1.755e-37	FAM83G
ENSG00000188549	-1.782	2.845e-31	2.686e-30	C15orf52
ENSG00000188582	2.47	0.003215	0.005978	PAQR9
ENSG00000188610	-2.417	3.968e-50	7.154e-49	FAM72B
ENSG00000188613	-2.347	1.2e-22	7.8e-22	NANOS1
ENSG00000188629	-2.21	2.683e-05	6.238e-05	ZNF177
ENSG00000188636	-2.978	5.936e-64	1.623e-62	LDOC1L
ENSG00000188647	-1.093	1.149e-28	9.778e-28	PTAR1
ENSG00000188747	-2.245	0.0002388	0.0005072	NOXA1
ENSG00000188761	2.865	4.21e-11	1.521e-10	BCL2L15
ENSG00000188766	3.598	5.977e-21	3.609e-20	SPRED3
ENSG00000188770	1.289	0.02691	0.04338	OPTC
ENSG00000188779	-2.76	0.02021	0.03331	SKOR1
ENSG00000188783	1.89	1.909e-06	4.912e-06	PRELP
ENSG00000188807	-1.673	1.131e-34	1.238e-33	TMEM201
ENSG00000188811	-1.486	7.394e-25	5.32e-24	NHLRC3
ENSG00000188818	3.145	2.093e-45	3.299e-44	ZDHHC11
ENSG00000188878	-2.223	8.745e-21	5.226e-20	FBF1
ENSG00000188886	6.263	1.195e-11	4.467e-11	ASTL
ENSG00000188895	-1.461	2.647e-24	1.861e-23	MSL1
ENSG00000188897	2.774	6.339e-08	1.837e-07	CTD-3088G3.8
ENSG00000188958	2.18	0.02392	0.03885	UTS2B
ENSG00000188959	1.531	0.003551	0.006559	C9orf152
ENSG00000188981	1.492	0.02945	0.04711	MSANTD1
ENSG00000188986	-2.195	5.026e-49	8.825e-48	NELFB
ENSG00000188994	2.341	9.401e-56	1.977e-54	ZNF292

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ENSG00000189001	3.234	6.131e-05	0.0001383	SBSN
ENSG00000189007	-1.887	3.113e-21	1.906e-20	ADAT2
ENSG00000189042	-1.025	9.813e-09	3.015e-08	ZNF567
ENSG00000189046	-2.39	3.7e-35	4.124e-34	ALKBH2
ENSG00000189056	1.543	6.046e-41	8.265e-40	RELN
ENSG00000189057	-3.143	3.623e-37	4.353e-36	FAM111B
ENSG00000189060	-4.814	7.478e-179	1.793e-176	H1FO
ENSG00000189090	2.381	0.008342	0.01463	FAM25B
ENSG00000189108	1.052	0.001848	0.00356	IL1RAPL2
ENSG00000189120	-2.249	1.379e-25	1.032e-24	SP6
ENSG00000189127	-3.046	3.019e-29	2.627e-28	ANKRD34B
ENSG00000189144	-2.232	3.168e-05	7.327e-05	ZNF573
ENSG00000189157	-1.529	0.0003433	0.0007174	FAM47E
ENSG00000189159	-1.586	2.513e-16	1.211e-15	HN1
ENSG00000189195	-2.074	0.001304	0.002555	BTBD8
ENSG00000189221	1.582	2.149e-09	6.932e-09	MAOA
ENSG00000189227	-1.649	0.002232	0.004248	C15orf61
ENSG00000189233	1.565	0.01413	0.02393	NUGGC
ENSG00000189252	7.317	9.446e-17	4.643e-16	SPANXN3
ENSG00000189269	-1.525	0.0005298	0.001085	C22orf43
ENSG00000189280	-2.777	3.18e-28	2.637e-27	GJB5
ENSG00000189319	-1.206	4.665e-11	1.681e-10	FAM53B
ENSG00000189320	3.166	0.002575	0.00486	FAM180A
ENSG00000189337	-1.714	6.34e-14	2.704e-13	KAZN
ENSG00000189339	-1.441	8.307e-15	3.711e-14	SLC35E2B
ENSG00000189350	4.854	7.352e-13	2.952e-12	FAM179A
ENSG00000189362	-1.5	3.832e-15	1.74e-14	TMEM194B
ENSG00000189367	3.371	0.01085	0.0187	KIAA0408
ENSG00000189377	1.058	0.0128	0.02179	CXCL17
ENSG00000196074	-1.245	0.0004213	0.0008717	SYCP2
ENSG00000196091	4.038	0.0002271	0.0004836	MYBPC1
ENSG00000196110	1.729	3.01e-06	7.609e-06	ZNF699
ENSG00000196116	-1.189	1.181e-17	6.085e-17	TDRD7
ENSG00000196123	-1.858	1.066e-28	9.075e-28	KIAA0895L
ENSG00000196132	4.017	0.0004761	0.0009786	MYT1
ENSG00000196151	-1.498	0.0004321	0.0008928	WDSUB1
ENSG00000196152	1.89	9.769e-41	1.325e-39	ZNF79
ENSG00000196155	-2.62	4.608e-44	6.975e-43	PLEKHG4
ENSG00000196172	-3.053	3.249e-07	8.942e-07	ZNF681
ENSG00000196182	2.12	1.765e-63	4.77e-62	STK40
ENSG00000196187	-1.19	6.964e-43	1.013e-41	TMEM63A
ENSG00000196189	-1.853	2.958e-28	2.456e-27	SEMA4A
ENSG00000196227	-3.975	1.082e-115	9.41e-114	FAM217B
ENSG00000196230	-1.82	1.223e-117	1.134e-115	TUBB

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ENSG00000196290	-1.968	3.354e-38	4.196e-37	NIF3L1
ENSG00000196326	1.192	0.0004096	0.0008486	AKR1CL1
ENSG00000196337	1.365	0.0002088	0.0004462	CGB7
ENSG00000196338	1.105	0.0166	0.02775	NLGN3
ENSG00000196352	4.204	3.058e-66	8.973e-65	CD55
ENSG00000196361	5.087	2.058e-07	5.747e-07	ELAVL3
ENSG00000196363	-1.527	1.218e-17	6.268e-17	WDR5
ENSG00000196367	-1.474	3.917e-50	7.07e-49	TRRAP
ENSG00000196371	-2.536	3.018e-14	1.308e-13	FUT4
ENSG00000196372	-5.554	3.139e-53	6.162e-52	ASB13
ENSG00000196378	2.231	2.444e-42	3.507e-41	ZNF34
ENSG00000196405	-1.268	6.1e-12	2.319e-11	EVL
ENSG00000196406	2.516	0.00677	0.01204	SPANXD
ENSG00000196409	-3.727	5.971e-12	2.271e-11	ZNF658
ENSG00000196411	-2.562	1.018e-80	4.283e-79	EPHB4
ENSG00000196422	-1.276	2.576e-15	1.178e-14	PPP1R26
ENSG00000196428	1.387	1.018e-58	2.357e-57	TSC22D2
ENSG00000196436	1.562	0.001933	0.003713	NPIPB15
ENSG00000196440	-1.454	1.025e-08	3.144e-08	ARMCX4
ENSG00000196449	1.601	1.53e-08	4.627e-08	YRDC
ENSG00000196453	-2.128	1.055e-23	7.219e-23	ZNF777
ENSG00000196455	-1.069	1.567e-16	7.613e-16	PIK3R4
ENSG00000196456	-2.388	6.031e-10	2.018e-09	ZNF775
ENSG00000196458	-2.056	3.757e-22	2.391e-21	ZNF605
ENSG00000196460	3.045	0.002887	0.005401	RFX8
ENSG00000196466	-2.272	0.0004165	0.0008621	ZNF799
ENSG00000196497	-1.024	6.676e-11	2.382e-10	IPO4
ENSG00000196498	-1.371	2.933e-14	1.272e-13	NCOR2
ENSG00000196502	-1.784	1.325e-49	2.356e-48	SULT1A1
ENSG00000196503	3.478	0.003094	0.00577	ARL9
ENSG00000196505	1.613	4.808e-59	1.121e-57	GDAP2
ENSG00000196535	-1.495	1.055e-56	2.281e-55	MYO18A
ENSG00000196544	-2.312	8.489e-09	2.623e-08	C17orf59
ENSG00000196547	-1.128	4.165e-25	3.03e-24	MAN2A2
ENSG00000196550	-1.671	3.362e-25	2.458e-24	FAM72A
ENSG00000196562	-1.957	1.797e-56	3.858e-55	SULF2
ENSG00000196576	-1.373	4.277e-60	1.051e-58	PLXNB2
ENSG00000196584	-1.089	1.228e-11	4.591e-11	XRCC2
ENSG00000196605	-1.215	0.00219	0.004175	ZNF846
ENSG00000196611	8.551	4.72e-21	2.864e-20	MMP1
ENSG00000196622	-2.894	3.837e-07	1.05e-06	RIMBP3
ENSG00000196628	-1.897	7.544e-30	6.707e-29	TCF4
ENSG00000196636	-1.061	4.739e-06	1.178e-05	ACN9
ENSG00000196639	2.27	2.546e-69	8.002e-68	HRH1

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ENSG00000196644	1.291	7.405e-05	0.0001656	GPR89C
ENSG00000196652	1.092	4.428e-16	2.109e-15	ZKSCAN5
ENSG00000196653	-1.268	0.002161	0.004123	ZNF502
ENSG00000196655	-1.354	1.515e-09	4.941e-09	TRAPPC4
ENSG00000196659	-2.474	3.586e-20	2.086e-19	TTC30B
ENSG00000196663	-1.876	1.829e-71	6.08e-70	TECPR2
ENSG00000196670	-1.932	5.955e-60	1.457e-58	ZFP62
ENSG00000196684	-2.046	2.788e-08	8.296e-08	HSH2D
ENSG00000196693	-1.85	3.923e-53	7.649e-52	ZNF33B
ENSG00000196700	-3.117	2.223e-135	2.806e-133	ZNF512B
ENSG00000196705	1.151	1.072e-05	2.585e-05	ZNF431
ENSG00000196715	-1.123	1.862e-39	2.426e-38	VKORC1L1
ENSG00000196724	-2.529	2.374e-07	6.602e-07	ZNF418
ENSG00000196730	-1.775	5.659e-40	7.48e-39	DAPK1
ENSG00000196739	1.89	2.413e-05	5.643e-05	COL27A1
ENSG00000196754	1.128	0.002787	0.005234	S100A2
ENSG00000196757	-2.454	1.542e-32	1.54e-31	ZNF700
ENSG00000196776	-1.059	1.864e-14	8.165e-14	CD47
ENSG00000196792	2.042	1.012e-89	5.291e-88	STRN3
ENSG00000196793	-2.441	1.202e-39	1.576e-38	ZNF239
ENSG00000196812	-1.686	2.036e-06	5.218e-06	ZSCAN16
ENSG00000196814	-1.527	7.9e-11	2.801e-10	MVB12B
ENSG00000196865	-3.287	6.878e-149	1.089e-146	NHLRC2
ENSG00000196872	-1.921	1.29e-27	1.044e-26	KIAA1211L
ENSG00000196878	3.177	1.332e-121	1.364e-119	LAMB3
ENSG00000196911	-1.908	1.853e-21	1.149e-20	KPNA5
ENSG00000196917	-4.75	4.916e-20	2.84e-19	HCAR1
ENSG00000196934	-3.921	6.989e-07	1.869e-06	RIMBP3B
ENSG00000196954	2.308	6.857e-56	1.448e-54	CASP4
ENSG00000196966	1.914	2.15e-08	6.447e-08	HIST1H3E
ENSG00000196968	1.855	1.053e-29	9.321e-29	FUT11
ENSG00000196987	1.694	0.02267	0.03699	LCA10
ENSG00000196993	1.096	2.022e-06	5.186e-06	NPIPB9
ENSG00000197024	-1.562	1.041e-14	4.622e-14	ZNF398
ENSG00000197045	-1.095	3.107e-20	1.81e-19	GMFB
ENSG00000197046	-2.379	0.002413	0.004571	SIGLEC15
ENSG00000197056	-1.112	6.369e-11	2.276e-10	ZMYM1
ENSG00000197063	2.111	2.799e-65	8.033e-64	MAFG
ENSG00000197070	-1.771	5.802e-51	1.071e-49	ARRDC1
ENSG00000197077	-1.719	1.686e-83	7.628e-82	KIAA1671
ENSG00000197106	-2.764	1.854e-53	3.658e-52	SLC6A17
ENSG00000197119	-1.11	4.789e-15	2.164e-14	SLC25A29
ENSG00000197121	-1.471	2.252e-18	1.204e-17	PGAP1
ENSG00000197128	-1.355	7.546e-11	2.681e-10	ZNF772

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ENSG00000197134	-2.845	0.0001188	0.0002602	ZNF257
ENSG00000197136	-1.079	1.402e-31	1.344e-30	PCNXL3
ENSG00000197140	2.622	2.785e-16	1.339e-15	ADAM32
ENSG00000197170	1.452	2.114e-52	4.065e-51	PSMD12
ENSG00000197181	3.273	1.749e-07	4.91e-07	PIWIL2
ENSG00000197182	-3.112	3.848e-21	2.346e-20	FLJ27365
ENSG00000197183	-1.886	2.253e-21	1.389e-20	C20orf112
ENSG00000197191	-3.162	2.857e-31	2.695e-30	C9orf169
ENSG00000197213	2.364	0.01606	0.02693	ZSCAN5B
ENSG00000197217	-1.126	1.338e-34	1.459e-33	ENTPD4
ENSG00000197223	1.399	3.02e-15	1.377e-14	C1D
ENSG00000197226	-1.546	4.475e-57	9.819e-56	TBC1D9B
ENSG00000197256	-2.427	1.406e-42	2.025e-41	KANK2
ENSG00000197261	-1.424	8.276e-09	2.561e-08	C6orf141
ENSG00000197275	-2.423	1.576e-72	5.377e-71	RAD54B
ENSG00000197279	2.927	1.166e-190	3.435e-188	ZNF165
ENSG00000197283	-1.385	4.044e-12	1.553e-11	SYNGAP1
ENSG00000197296	-3.106	5.442e-54	1.088e-52	FITM2
ENSG00000197299	-2.389	2.935e-67	8.861e-66	BLM
ENSG00000197312	-1.052	8.479e-34	8.89e-33	DDI2
ENSG00000197321	-1.577	2.384e-57	5.294e-56	SVIL
ENSG00000197343	1.12	2.33e-23	1.567e-22	ZNF655
ENSG00000197355	-1.185	1.509e-08	4.568e-08	UAP1L1
ENSG00000197362	-2.121	2.495e-23	1.674e-22	ZNF786
ENSG00000197363	-1.914	5.206e-07	1.406e-06	ZNF517
ENSG00000197376	2.616	0.01415	0.02395	OR8S1
ENSG00000197380	4.079	6.118e-07	1.643e-06	DACT3
ENSG00000197381	-1.001	3.5e-10	1.191e-09	ADARB1
ENSG00000197385	-1.788	2.125e-05	4.991e-05	ZNF860
ENSG00000197405	2.821	3.895e-31	3.65e-30	C5AR1
ENSG00000197406	-1.266	0.02058	0.03386	DIO3
ENSG00000197409	1.858	0.02011	0.03315	HIST1H3D
ENSG00000197415	-1.286	8.066e-06	1.966e-05	VEPH1
ENSG00000197417	-1.62	3.05e-25	2.237e-24	SHPK
ENSG00000197429	-1.541	1.557e-29	1.371e-28	IPP
ENSG00000197442	-2.647	3.817e-65	1.086e-63	MAP3K5
ENSG00000197444	-1.19	3.85e-07	1.053e-06	OGDHL
ENSG00000197446	2.962	0.02073	0.03408	CYP2F1
ENSG00000197457	-1.129	2.157e-09	6.955e-09	STMN3
ENSG00000197483	1.615	1.488e-37	1.817e-36	ZNF628
ENSG00000197496	-2.894	1.066e-36	1.25e-35	SLC2A10
ENSG00000197506	3.036	2.569e-27	2.059e-26	SLC28A3
ENSG00000197536	-2.317	1.012e-05	2.447e-05	C5orf56
ENSG00000197540	2.789	0.01973	0.03257	GZMM

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ENSG00000197557	-2.136	3.163e-18	1.678e-17	TTC30A
ENSG00000197562	-1.151	3.802e-07	1.041e-06	RAB40C
ENSG00000197576	-2.789	0.02914	0.04663	HOXA4
ENSG00000197579	-1.74	1.104e-30	1.013e-29	TOPORS
ENSG00000197580	1.091	0.0001794	0.0003858	BCO2
ENSG00000197586	-1.283	1.028e-12	4.102e-12	ENTPD6
ENSG00000197587	-1.49	0.01106	0.01904	DMBX1
ENSG00000197603	-2.14	1.151e-27	9.359e-27	C5orf42
ENSG00000197604	-2.713	0.02234	0.0365	AC022532.1
ENSG00000197608	1.032	4.537e-21	2.755e-20	ZNF841
ENSG00000197632	7.097	5.266e-16	2.495e-15	SERPIN2
ENSG00000197694	-1.038	1.382e-28	1.171e-27	SPTAN1
ENSG00000197712	-1.663	1.782e-42	2.563e-41	FAM114A1
ENSG00000197714	2.137	4.293e-31	4.015e-30	ZNF460
ENSG00000197724	-1.203	2.75e-20	1.604e-19	PHF2
ENSG00000197748	1.816	2.726e-20	1.591e-19	WDR96
ENSG00000197757	-2.836	2.68e-20	1.564e-19	HOXC6
ENSG00000197763	-2.714	1.612e-32	1.607e-31	TXNRD3
ENSG00000197768	-2.696	0.01871	0.03101	C9orf173
ENSG00000197769	-2.678	4.063e-05	9.318e-05	MAP1LC3C
ENSG00000197771	-1.773	2.74e-83	1.23e-81	MCMBP
ENSG00000197774	-1.651	2.447e-24	1.723e-23	EME2
ENSG00000197780	2.214	1.045e-46	1.723e-45	TAF13
ENSG00000197785	-1.163	7.048e-23	4.618e-22	ATAD3A
ENSG00000197808	1.107	9.663e-13	3.857e-12	ZNF461
ENSG00000197816	-2.466	2.653e-17	1.343e-16	CCDC180
ENSG00000197841	-1.051	2.808e-07	7.764e-07	ZNF181
ENSG00000197852	-1.359	0.007395	0.01308	FAM212B
ENSG00000197872	-2.159	8.461e-28	6.921e-27	FAM49A
ENSG00000197893	5.955	3.097e-10	1.058e-09	NRAP
ENSG00000197905	-1.079	2.877e-17	1.454e-16	TEAD4
ENSG00000197910	3.012	0.01008	0.01746	FAM25G
ENSG00000197915	3.675	8.88e-37	1.047e-35	HRNR
ENSG00000197919	2.377	0.002791	0.005239	IFNA1
ENSG00000197927	-2.815	0.0146	0.02464	C2orf27A
ENSG00000197932	-4.227	1.511e-67	4.604e-66	F8A1
ENSG00000197935	-3.928	1.201e-28	1.019e-27	ZNF311
ENSG00000197943	-1.207	4.27e-06	1.067e-05	PLCG2
ENSG00000197951	-1.747	7.725e-07	2.059e-06	ZNF71
ENSG00000197961	1.091	7.853e-28	6.43e-27	ZNF121
ENSG00000197965	-1.306	6.404e-43	9.323e-42	MPZL1
ENSG00000197976	1.235	7.134e-25	5.135e-24	AKAP17A
ENSG00000198010	4.384	7.64e-05	0.0001707	DLGAP2
ENSG00000198018	2.013	8.029e-42	1.138e-40	ENTPD7

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ENSG00000198019	4.277	1.355e-06	3.535e-06	FCGR1B
ENSG00000198021	3.604	2.903e-07	8.021e-07	SPANXA1
ENSG00000198028	1.326	0.02379	0.03867	ZNF560
ENSG00000198040	-1.138	6.732e-19	3.684e-18	ZNF84
ENSG00000198053	-1.443	1.714e-21	1.064e-20	SIRPA
ENSG00000198056	-1.461	3.942e-34	4.215e-33	PRIM1
ENSG00000198060	1.021	1.94e-11	7.169e-11	5-Mar
ENSG00000198077	3.28	0.0006366	0.001292	CYP2A7
ENSG00000198081	-3.432	1.696e-50	3.084e-49	ZBTB14
ENSG00000198082	2.368	0.006565	0.01169	H2AFB1
ENSG00000198089	-1.639	2.896e-27	2.315e-26	SFI1
ENSG00000198092	3.532	0.000135	0.0002939	TMPRSS11F
ENSG00000198093	-1.659	4.174e-20	2.42e-19	ZNF649
ENSG00000198105	-1.959	3.572e-11	1.297e-10	ZNF248
ENSG00000198113	-1.29	2.502e-12	9.729e-12	TOR4A
ENSG00000198121	-3.421	8.745e-33	8.801e-32	LPAR1
ENSG00000198131	-1.447	6.804e-31	6.31e-30	ZNF544
ENSG00000198133	-2.453	0.01869	0.03099	TMEM229B
ENSG00000198142	1.015	5.638e-18	2.958e-17	SOWAHC
ENSG00000198156	1.742	1.078e-08	3.299e-08	NPIP6
ENSG00000198168	-1.053	1.378e-20	8.164e-20	SVIP
ENSG00000198176	-1.138	3.856e-56	8.214e-55	TFDP1
ENSG00000198182	-2.213	5.083e-08	1.483e-07	ZNF607
ENSG00000198205	-2.538	6.094e-23	4.004e-22	ZXDA
ENSG00000198208	-2.013	1.75e-13	7.307e-13	RPS6KL1
ENSG00000198246	-3.397	2.769e-82	1.207e-80	SLC29A3
ENSG00000198298	-1.061	9.054e-07	2.4e-06	ZNF485
ENSG00000198315	-2.462	0.0001606	0.0003469	ZKSCAN8
ENSG00000198324	-2.427	1.678e-26	1.3e-25	FAM109A
ENSG00000198331	-2.36	9.578e-34	1.002e-32	HYLS1
ENSG00000198339	3.455	7.768e-12	2.931e-11	HIST1H4I
ENSG00000198417	3.433	2.637e-83	1.187e-81	MT1F
ENSG00000198420	-1.972	1.509e-61	3.861e-60	FAM115A
ENSG00000198431	1.039	5.1e-21	3.091e-20	TXNRD1
ENSG00000198435	2.3	4.103e-112	3.36e-110	NRARP
ENSG00000198440	1.488	0.0006067	0.001234	ZNF583
ENSG00000198444	-4.116	5.167e-47	8.587e-46	F8A2
ENSG00000198477	-3.482	1.356e-44	2.087e-43	ZNF280B
ENSG00000198483	-3.031	1.756e-08	5.294e-08	ANKRD35
ENSG00000198498	-1.067	3.612e-11	1.312e-10	TMA16
ENSG00000198513	-2.367	3.972e-08	1.169e-07	ATL1
ENSG00000198517	1.942	7.559e-25	5.434e-24	MAFK
ENSG00000198518	1.321	0.01818	0.03021	HIST1H4E
ENSG00000198522	1.353	7.861e-41	1.069e-39	GPN1

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ENSG00000198551	-1.336	8.129e-15	3.634e-14	ZNF627
ENSG00000198553	-2.399	0.004328	0.007903	KCNRG
ENSG00000198554	-2.212	3.535e-69	1.105e-67	WDHD1
ENSG00000198561	-1.024	6.439e-31	5.978e-30	CTNND1
ENSG00000198573	4.555	4.499e-07	1.223e-06	SPANXC
ENSG00000198576	8.582	2.353e-64	6.551e-63	ARC
ENSG00000198585	-2.558	7.227e-73	2.501e-71	NUDT16
ENSG00000198610	2.073	2.312e-09	7.432e-09	AKR1C4
ENSG00000198626	2.051	0.008236	0.01446	RYR2
ENSG00000198642	-1.018	2.414e-10	8.302e-10	KLHL9
ENSG00000198650	4.474	2.351e-16	1.135e-15	TAT
ENSG00000198680	-2.887	2.263e-18	1.21e-17	TUSC1
ENSG00000198682	-1.073	6.208e-09	1.938e-08	PAPSS2
ENSG00000198689	-1.144	8.541e-23	5.581e-22	SLC9A6
ENSG00000198690	-2.234	1.489e-41	2.089e-40	FAN1
ENSG00000198695	1.299	0.02884	0.04618	MT-ND6
ENSG00000198700	-1.355	7.093e-33	7.19e-32	IPO9
ENSG00000198712	1.043	0.0261	0.04216	MT-CO2
ENSG00000198719	4.117	0.0003375	0.0007065	DLL1
ENSG00000198722	-1.041	6.595e-05	0.0001482	UNC13B
ENSG00000198728	-2.001	9.416e-44	1.414e-42	LDB1
ENSG00000198732	3.247	0.01871	0.03101	SMOC1
ENSG00000198740	-1.537	1.702e-44	2.609e-43	ZNF652
ENSG00000198742	1.585	1.593e-101	1.074e-99	SMURF1
ENSG00000198746	1.106	1.61e-09	5.246e-09	GPATCH3
ENSG00000198753	-1.279	4.136e-20	2.4e-19	PLXNB3
ENSG00000198771	4.565	2.473e-05	5.773e-05	RCS1
ENSG00000198774	2.745	6.135e-09	1.916e-08	RASSF9
ENSG00000198780	-1.256	8.633e-15	3.855e-14	FAM169A
ENSG00000198783	1.457	1.19e-33	1.24e-32	ZNF830
ENSG00000198788	4.795	1.129e-05	2.717e-05	MUC2
ENSG00000198793	-1.038	4.266e-30	3.823e-29	MTOR
ENSG00000198794	-2.589	2.557e-41	3.547e-40	SCAMP5
ENSG00000198804	1.116	0.02671	0.04308	MT-CO1
ENSG00000198824	-2.165	5.68e-22	3.585e-21	CHAMP1
ENSG00000198825	-1.176	8.079e-11	2.862e-10	INPP5F
ENSG00000198826	-2.821	1.031e-188	2.984e-186	ARHGAP11A
ENSG00000198829	3.771	1.763e-26	1.364e-25	SUCNR1
ENSG00000198837	-3.4	5.599e-120	5.561e-118	DENND4B
ENSG00000198839	1.753	5.025e-36	5.766e-35	ZNF277
ENSG00000198853	1.615	3.523e-61	8.933e-60	RUSC2
ENSG00000198855	2.138	5.068e-23	3.34e-22	FICD
ENSG00000198870	2.945	6.056e-06	1.492e-05	C9orf96
ENSG00000198879	-1.071	4.248e-06	1.062e-05	SFMBT2

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ENSG00000198888	1.31	0.02037	0.03356	MT-ND1
ENSG00000198890	-4.142	2.406e-107	1.795e-105	PRMT6
ENSG00000198894	-2.28	4.581e-88	2.309e-86	KIAA1737
ENSG00000198900	1.453	2.297e-25	1.695e-24	TOP1
ENSG00000198901	-1.61	3.976e-35	4.42e-34	PRC1
ENSG00000198912	-1.331	1.942e-13	8.086e-13	C1orf174
ENSG00000198915	-1.815	3.973e-23	2.636e-22	RASGEF1A
ENSG00000198917	-1.77	1.977e-30	1.794e-29	C9orf114
ENSG00000198924	-3.038	1.029e-83	4.692e-82	DCLRE1A
ENSG00000198934	-2.991	9.169e-12	3.448e-11	MAGEE1
ENSG00000198944	2.37	0.0004332	0.0008949	SOWAHA
ENSG00000198945	-2.27	3.718e-17	1.869e-16	L3MBTL3
ENSG00000198948	-2.046	2.537e-28	2.115e-27	MFAP3L
ENSG00000198954	-2.023	1.106e-53	2.192e-52	KIAA1279
ENSG00000198960	-2.554	7.573e-30	6.729e-29	ARMCX6
ENSG00000203392	-2.386	1.893e-06	4.873e-06	AC105020.1
ENSG00000203485	-1.548	7.931e-30	7.043e-29	INF2
ENSG00000203667	1.724	2.024e-26	1.563e-25	COX20
ENSG00000203668	-1.378	1.643e-62	4.358e-61	CHML
ENSG00000203684	3.019	0.0004388	0.0009059	IBA57-AS1
ENSG00000203705	-1.428	1.293e-14	5.699e-14	TATDN3
ENSG00000203724	-1.343	0.001389	0.002715	C1orf53
ENSG00000203778	-1.102	6.715e-06	1.648e-05	FAM229B
ENSG00000203791	-1.476	2.734e-22	1.751e-21	METTL10
ENSG00000203804	3.619	3.031e-14	1.313e-13	ADAMTSL4-AS1
ENSG00000203812	1.647	4.912e-06	1.218e-05	HIST2H2AA4
ENSG00000203814	4.49	7.693e-60	1.869e-58	HIST2H2BF
ENSG00000203817	-2.198	3.319e-11	1.208e-10	FAM72C
ENSG00000203857	-2.257	8.078e-15	3.612e-14	HSD3B1
ENSG00000203867	-2.594	1.931e-11	7.138e-11	RBM20
ENSG00000203872	-3.477	1.277e-06	3.339e-06	C6orf163
ENSG00000203880	-1.265	2.673e-31	2.529e-30	PCMTD2
ENSG00000203907	-1.877	0.003467	0.006413	OOEP
ENSG00000203923	6.585	1.856e-13	7.739e-13	SPANXN1
ENSG00000203926	4.164	1.177e-12	4.676e-12	SPANXA2
ENSG00000203952	-2.048	0.02983	0.04766	CCDC160
ENSG00000203995	-2.882	6.054e-31	5.624e-30	ZYG11A
ENSG00000204021	1.36	3.163e-05	7.316e-05	LIPK
ENSG00000204052	2.901	3.645e-07	9.99e-07	LRRC73
ENSG00000204060	-3.27	2.824e-10	9.671e-10	FOXO6
ENSG00000204103	2.982	1.714e-25	1.277e-24	MAFB
ENSG00000204104	-1.519	2.19e-33	2.254e-32	TRAF3IP1
ENSG00000204138	-1.497	8.447e-08	2.427e-07	PHACTR4
ENSG00000204147	-1.405	1.213e-08	3.698e-08	ASAH2B

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ENSG00000204149	1.065	1.129e-12	4.489e-12	AGAP6
ENSG00000204174	-2.727	1.328e-18	7.187e-18	NPY4R
ENSG00000204175	-3.238	2.813e-14	1.223e-13	GPRIN2
ENSG00000204176	-1.169	2.726e-13	1.126e-12	SYT15
ENSG00000204178	1.641	4.11e-34	4.385e-33	TMEM57
ENSG00000204179	-1.589	4.27e-16	2.037e-15	PTPN20A
ENSG00000204231	-1.534	8.289e-17	4.093e-16	RXRΒ
ENSG00000204237	-2.464	1.441e-15	6.662e-15	OXLD1
ENSG00000204248	1.179	0.002803	0.005258	COL11A2
ENSG00000204252	3.072	0.01318	0.02241	HLA-DOA
ENSG00000204264	-1.028	5.503e-09	1.724e-08	PSMB8
ENSG00000204271	-1.455	1.201e-08	3.664e-08	SPIN3
ENSG00000204291	2.09	8.612e-24	5.915e-23	COL15A1
ENSG00000204304	-2.069	1.3e-49	2.313e-48	PBX2
ENSG00000204305	-1.125	0.002758	0.005182	AGER
ENSG00000204311	-1.175	0.02416	0.03923	DFNB59
ENSG00000204314	-1.687	6.512e-07	1.745e-06	PRRT1
ENSG00000204315	-2.954	9.229e-20	5.265e-19	FKBP1
ENSG00000204316	-1.153	3.588e-16	1.717e-15	MRPL38
ENSG00000204323	1.827	0.0006483	0.001315	SMIM5
ENSG00000204363	5.506	2.201e-08	6.592e-08	SPANXN5
ENSG00000204366	-3.002	1.525e-28	1.286e-27	ZBTB12
ENSG00000204371	-1.534	1.693e-50	3.082e-49	EHMT2
ENSG00000204381	-1.681	3.029e-05	7.016e-05	LAYN
ENSG00000204388	6.309	0	0	HSPA1B
ENSG00000204389	6.371	0	0	HSPA1A
ENSG00000204390	4.158	9.242e-133	1.132e-130	HSPA1L
ENSG00000204392	-1.752	2.145e-35	2.413e-34	LSM2
ENSG00000204403	3.39	0.004536	0.008248	CASP12
ENSG00000204410	-1.265	1.817e-20	1.071e-19	MSH5
ENSG00000204428	1.045	0.01422	0.02407	LY6G5C
ENSG00000204439	-2.385	3.946e-26	3.018e-25	C6orf47
ENSG00000204442	1.019	0.02262	0.03693	FAM155A
ENSG00000204469	-1.422	5.719e-67	1.714e-65	PRRC2A
ENSG00000204514	1.101	1.963e-10	6.787e-10	ZNF814
ENSG00000204516	-1.392	1.266e-36	1.48e-35	MICB
ENSG00000204524	1.15	7.037e-07	1.881e-06	ZNF805
ENSG00000204531	-1.47	0.02872	0.04602	POU5F1
ENSG00000204536	-2.238	2.256e-25	1.666e-24	CCHCR1
ENSG00000204540	1.119	8.192e-09	2.537e-08	PSORS1C1
ENSG00000204560	-1.931	2.832e-41	3.916e-40	DHX16
ENSG00000204564	-1.491	2.281e-14	9.943e-14	C6orf136
ENSG00000204569	1.912	2.349e-44	3.592e-43	PPP1R10
ENSG00000204577	2.682	0.003442	0.00637	LILRB3

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ENSG00000204580	-1.132	3.303e-12	1.274e-11	DDR1
ENSG00000204610	4.171	0.0001076	0.0002373	TRIM15
ENSG00000204611	-2.545	1.221e-12	4.84e-12	ZNF616
ENSG00000204616	-3.27	1.03e-10	3.627e-10	TRIM31
ENSG00000204618	1.013	0.0002052	0.0004389	RNF39
ENSG00000204620	2.408	2.528e-08	7.544e-08	AC115618.1
ENSG00000204644	2.536	4.772e-14	2.05e-13	ZFP57
ENSG00000204653	1.124	0.02828	0.04539	ASPDH
ENSG00000204677	3.232	0.008729	0.01526	FAM153C
ENSG00000204682	-4.262	2.138e-28	1.79e-27	CASC10
ENSG00000204767	-3.242	2.207e-05	5.177e-05	FAM196B
ENSG00000204839	-1.245	1.441e-24	1.025e-23	MROH6
ENSG00000204856	-2.171	1.158e-23	7.894e-23	FAM216A
ENSG00000204922	-1.436	1.169e-16	5.718e-16	C11orf83
ENSG00000204923	1.673	8.849e-13	3.539e-12	FBXO48
ENSG00000204941	-1.611	1.213e-09	3.994e-09	PSG5
ENSG00000204946	-3.059	2.874e-86	1.394e-84	ZNF783
ENSG00000204952	3.81	2.634e-05	6.132e-05	FBXO47
ENSG00000204957	3.648	1.273e-26	9.91e-26	AC006486.1
ENSG00000204963	-2.925	0.01095	0.01886	PCDHA7
ENSG00000204977	-1.656	1.26e-17	6.479e-17	TRIM13
ENSG00000204978	2.806	0.008627	0.0151	C19orf69
ENSG00000205060	-2.102	8.746e-56	1.844e-54	SLC35B4
ENSG00000205078	1.699	0.0008519	0.001702	SYCE1L
ENSG00000205084	-2.625	7.646e-39	9.805e-38	TMEM231
ENSG00000205097	3.425	0.003966	0.007278	FRG2
ENSG00000205138	-3.057	6.808e-18	3.553e-17	SDHAF1
ENSG00000205177	4.991	8.022e-07	2.136e-06	C11orf91
ENSG00000205208	-1.893	8.519e-42	1.204e-40	C4orf46
ENSG00000205212	4.124	6.175e-06	1.521e-05	CCDC144NL
ENSG00000205213	-1.009	1.557e-24	1.107e-23	LGR4
ENSG00000205269	-2.23	9.669e-40	1.272e-38	TMEM170B
ENSG00000205309	-2.159	0.001096	0.002166	NT5M
ENSG00000205356	-1.119	3.711e-06	9.307e-06	TECPR1
ENSG00000205362	2.597	0.0001055	0.0002329	MT1A
ENSG00000205413	-2.842	4.511e-94	2.629e-92	SAMD9
ENSG00000205420	1.414	1.467e-14	6.454e-14	KRT6A
ENSG00000205476	-2.311	1.191e-60	2.971e-59	CCDC85C
ENSG00000205517	-1.339	2.493e-30	2.255e-29	RGL3
ENSG00000205560	-1.568	2.836e-13	1.169e-12	CPT1B
ENSG00000205571	1.136	9.268e-06	2.249e-05	SMN2
ENSG00000205572	-1.599	3.958e-09	1.252e-08	SERF1B
ENSG00000205592	4.014	0.0004101	0.0008497	MUC19
ENSG00000205593	-1.614	4.822e-10	1.625e-09	DENND6B

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ENSG00000205595	3.129	5.794e-25	4.19e-24	AREGB
ENSG00000205643	-3.189	4.941e-22	3.128e-21	CDPF1
ENSG00000205664	-1.135	6.31e-13	2.544e-12	RP11-706O15.1
ENSG00000205693	-2.464	0.00472	0.008568	MANSC4
ENSG00000205730	-4.172	2.008e-107	1.505e-105	ITPRIPL2
ENSG00000205740	1.975	0.003535	0.006532	AL359878.1
ENSG00000205765	1.137	1.145e-12	4.549e-12	C5orf51
ENSG00000205808	-2.939	3.568e-25	2.603e-24	PPAPDC2
ENSG00000205835	3.52	0.004926	0.008925	GMNC
ENSG00000205856	4.122	0.000126	0.0002753	C22orf42
ENSG00000205867	3.065	0.02461	0.03991	KRTAP5-2
ENSG00000205869	4.099	2.497e-06	6.349e-06	KRTAP5-1
ENSG00000205978	-3.096	2.642e-25	1.944e-24	NYNRIN
ENSG00000205981	-1.151	4.277e-14	1.841e-13	DNAJC19
ENSG00000206013	5.564	1.278e-08	3.891e-08	IFITM5
ENSG00000206044	-1.512	0.01748	0.02913	AC005841.1
ENSG00000206053	-1.605	6.615e-44	9.994e-43	HN1L
ENSG00000206075	1.392	3.166e-39	4.095e-38	SERPINB5
ENSG00000206077	2.046	2.741e-05	6.369e-05	ZDHHC11B
ENSG00000206127	-1.759	0.009157	0.01596	GOLGA80
ENSG00000206150	2.713	0.02739	0.04406	RNASE13
ENSG00000206418	-1.013	1.589e-22	1.026e-21	RAB12
ENSG00000206530	-2.473	3.53e-66	1.031e-64	WDR52
ENSG00000206532	3.18	0.0001885	0.0004044	RP11-553A10.1
ENSG00000206535	-1.8	1.532e-07	4.325e-07	LNP1
ENSG00000206538	1.258	4.949e-30	4.414e-29	VGLL3
ENSG00000206559	2.213	0.01306	0.02222	ZCWPW2
ENSG00000211448	-1.25	7.516e-64	2.048e-62	DIO2
ENSG00000211455	1.146	1.363e-42	1.964e-41	STK38L
ENSG00000211456	-1.612	1.37e-46	2.244e-45	SACM1L
ENSG00000211584	-1.627	7.604e-43	1.105e-41	SLC48A1
ENSG00000212123	-1.267	0.006907	0.01227	PRR22
ENSG00000212673	1.363	0.0006234	0.001267	AL136115.1
ENSG00000212719	-1.156	4.155e-09	1.312e-08	C17orf51
ENSG00000212724	2.37	0.0001568	0.0003391	KRTAP2-3
ENSG00000212747	-3.246	3.264e-24	2.285e-23	FAM127C
ENSG00000212864	-3.53	2.023e-32	2.009e-31	RNF208
ENSG00000212916	-3.567	4.806e-37	5.747e-36	MAP10
ENSG00000212997	2.731	6.79e-05	0.0001524	AC023632.1
ENSG00000212998	1.961	1.37e-15	6.348e-15	RBM12B-AS1
ENSG00000213015	1.544	1.333e-44	2.054e-43	ZNF580
ENSG00000213024	-1.469	3.517e-50	6.368e-49	NUP62
ENSG00000213047	-1.037	3.1e-15	1.413e-14	DENND1B
ENSG00000213066	-1.781	7.07e-44	1.067e-42	FGFR1OP

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ENSG00000213123	4.283	8.655e-06	2.104e-05	TCTEX1D2
ENSG00000213139	-2.175	6.408e-06	1.576e-05	CRYGS
ENSG00000213160	-2.882	4.964e-59	1.156e-57	KLHL23
ENSG00000213185	-1.136	0.002846	0.00533	FAM24B
ENSG00000213186	-2.236	9.017e-24	6.188e-23	TRIM59
ENSG00000213190	1.307	4.604e-22	2.916e-21	MLLT11
ENSG00000213246	1.085	1.074e-31	1.035e-30	SUPT4H1
ENSG00000213337	-1.285	2.877e-11	1.051e-10	ANKRD39
ENSG00000213339	-1.3	7.383e-21	4.428e-20	QTRT1
ENSG00000213380	-1.615	3.915e-36	4.514e-35	COG8
ENSG00000213445	-1.223	2.501e-09	8.025e-09	SIPA1
ENSG00000213465	-1.073	4.569e-15	2.068e-14	ARL2
ENSG00000213471	2.098	0.004866	0.008822	TTLL13
ENSG00000213516	-1.409	3.148e-13	1.292e-12	RBMXL1
ENSG00000213533	-2.045	0.0225	0.03674	TMEM110
ENSG00000213551	-2.02	1.233e-70	4.018e-69	DNAJC9
ENSG00000213563	-1.404	1.105e-10	3.888e-10	C8orf82
ENSG00000213588	-2.54	7.153e-57	1.553e-55	ZBTB9
ENSG00000213626	2	1.385e-06	3.61e-06	LBH
ENSG00000213638	-1.172	0.00127	0.00249	ADAT3
ENSG00000213658	1.581	1.099e-05	2.648e-05	LAT
ENSG00000213672	-2.545	6.2e-43	9.033e-42	NCKIPSD
ENSG00000213689	-1.672	8.058e-06	1.964e-05	TREX1
ENSG00000213694	-1.289	7.564e-19	4.13e-18	S1PR3
ENSG00000213699	-1.063	7.83e-24	5.384e-23	SLC35F6
ENSG00000213760	4.242	3.762e-17	1.89e-16	ATP6V1G2
ENSG00000213762	-1.729	0.01188	0.02034	ZNF134
ENSG00000213780	-2.144	1.458e-09	4.762e-09	GTF2H4
ENSG00000213853	-1.355	1.304e-24	9.301e-24	EMP2
ENSG00000213888	-3.051	7.268e-05	0.0001627	AC005003.1
ENSG00000213920	-1.011	0.02339	0.03809	MDP1
ENSG00000213922	3.793	0.0007195	0.001448	AC011500.1
ENSG00000213928	-1.841	4.736e-12	1.813e-11	IRF9
ENSG00000213937	-4.368	7.361e-62	1.901e-60	CLDN9
ENSG00000213949	1.268	8.933e-11	3.156e-10	ITGA1
ENSG00000213965	-2.605	2.493e-65	7.165e-64	NUDT19
ENSG00000213977	-1.102	2.304e-09	7.408e-09	TAX1BP3
ENSG00000214021	2.415	2.623e-64	7.29e-63	TTLL3
ENSG00000214022	-2.175	2.709e-59	6.433e-58	REPIN1
ENSG00000214029	-2.266	5.698e-09	1.783e-08	ZNF891
ENSG00000214050	-1.896	2.754e-07	7.621e-07	FBXO16
ENSG00000214063	-1	1.223e-05	2.931e-05	TSPAN4
ENSG00000214102	2.56	0.02048	0.03372	WEE2
ENSG00000214106	-1.149	4.415e-05	0.0001009	PAXIP1-AS2

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ENSG00000214194	-1.459	4.155e-11	1.501e-10	LINC00998
ENSG00000214226	1.514	2.601e-07	7.209e-07	C17orf67
ENSG00000214300	-1.474	0.003479	0.006433	SPDYE3
ENSG00000214309	-1.438	0.01404	0.02378	MBLAC1
ENSG00000214338	1.884	1.585e-05	3.762e-05	SOGA3
ENSG00000214357	-4.711	6.298e-85	2.961e-83	NEURL1B
ENSG00000214376	-2.499	0.0005592	0.001142	VSTM5
ENSG00000214402	3.157	0.00986	0.0171	LCNL1
ENSG00000214413	1.535	3.791e-16	1.812e-15	BBIP1
ENSG00000214491	1.694	0.02345	0.03817	SEC14L6
ENSG00000214753	-2.11	5.499e-57	1.203e-55	HNRNPUL2
ENSG00000214756	1.107	2.555e-11	9.377e-11	METTL12
ENSG00000214827	-2.007	8.682e-13	3.474e-12	MTCP1
ENSG00000214860	-1.367	0.0002274	0.0004841	EVPLL
ENSG00000214941	-1.016	4.15e-06	1.038e-05	ZSWIM7
ENSG00000214944	-1.507	3.741e-71	1.234e-69	ARHGEF28
ENSG00000215012	-3.885	1.312e-91	7.22e-90	C22orf29
ENSG00000215033	-1.823	4.503e-20	2.603e-19	AL603965.1
ENSG00000215041	-1.814	3.521e-24	2.46e-23	NEURL4
ENSG00000215186	4.753	7.956e-06	1.941e-05	GOLGA6B
ENSG00000215193	-1.341	2.042e-30	1.852e-29	PEX26
ENSG00000215252	-1.067	1.356e-09	4.44e-09	GOLGA8B
ENSG00000215271	-2.171	1.48e-22	9.58e-22	HOMEZ
ENSG00000215343	4.542	1.948e-05	4.592e-05	ZNF705D
ENSG00000215356	4.333	3.81e-05	8.755e-05	ZNF705B
ENSG00000215405	3.633	0.001959	0.003761	GOLGA6L6
ENSG00000215440	-1.288	1.713e-12	6.725e-12	NPEPL1
ENSG00000215621	-2.01	0.004207	0.007696	AC174470.1
ENSG00000215712	-1.047	1.643e-05	3.897e-05	TMEM242
ENSG00000215717	-1.382	2.186e-20	1.284e-19	TMEM167B
ENSG00000215784	-2.321	9.384e-31	8.665e-30	FAM72D
ENSG00000215790	-1.914	6.744e-07	1.806e-06	SLC35E2
ENSG00000215883	-1.597	3.133e-13	1.286e-12	CYB5RL
ENSG00000215912	2.912	0.004963	0.008991	TTC34
ENSG00000216490	-1.312	1.341e-10	4.688e-10	IFI30
ENSG00000216895	-1.315	1.321e-05	3.158e-05	AC009403.2
ENSG00000217128	2.058	2.147e-48	3.685e-47	FNIP1
ENSG00000217555	-1.121	1.426e-05	3.398e-05	CKLF
ENSG00000217930	-1.048	6.573e-08	1.902e-07	PAM16
ENSG00000218819	-1.508	2.85e-09	9.11e-09	TDRD15
ENSG00000218891	-1.231	2.536e-08	7.566e-08	ZNF579
ENSG00000219481	-1.191	2.636e-23	1.765e-22	NBPF1
ENSG00000220201	-1.757	0.02971	0.04747	ZGLP1
ENSG00000221829	-1.121	9.624e-12	3.617e-11	FANCG

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ENSG00000221838	-1.873	8.282e-21	4.958e-20	AP4M1
ENSG00000221843	-1.523	0.001106	0.002185	C2orf16
ENSG00000221866	-2.462	6.508e-07	1.744e-06	PLXNA4
ENSG00000221869	-2.4	8.97e-08	2.573e-07	CEBPD
ENSG00000221883	3.161	7.918e-14	3.363e-13	ARIH2OS
ENSG00000221886	-4.141	9.032e-29	7.712e-28	C5orf54
ENSG00000221890	-3.33	1.375e-24	9.793e-24	NPTXR
ENSG00000221914	1.27	7.316e-36	8.326e-35	PPP2R2A
ENSG00000221916	-2.564	0.02887	0.04623	C19orf73
ENSG00000221944	-1.885	1.129e-23	7.701e-23	TIGD1
ENSG00000221978	-1.269	7.575e-16	3.556e-15	CCNL2
ENSG00000221988	-1.435	9.19e-07	2.435e-06	PPT2
ENSG00000222009	4.079	4.903e-41	6.752e-40	BTBD19
ENSG00000222040	7.236	6.365e-26	4.826e-25	ADRA2B
ENSG00000222046	2.447	0.001876	0.003609	DCDC2B
ENSG00000223569	3.415	0.003759	0.006923	USP17L15
ENSG00000223638	7.52	1.061e-17	5.477e-17	RFPL4A
ENSG00000224051	-2.81	4.484e-19	2.475e-18	GLTPD1
ENSG00000224361	3.035	0.01956	0.03231	AC011239.1
ENSG00000224470	1.099	1.423e-25	1.064e-24	ATXN1L
ENSG00000224531	-1.171	5.482e-17	2.731e-16	SMIM13
ENSG00000224870	-1.485	2.89e-19	1.61e-18	RP4-758J18.2
ENSG00000224877	-1.342	1.496e-06	3.886e-06	C17orf89
ENSG00000224940	-4.696	1.007e-06	2.661e-06	PRRT4
ENSG00000224997	1.906	2.215e-22	1.423e-21	AL049840.1
ENSG00000225119	-1.407	0.002231	0.004246	LINC00999
ENSG00000225485	-1.289	4.042e-23	2.681e-22	ARHGAP23
ENSG00000225526	-1.759	4.372e-05	9.999e-05	C3orf83
ENSG00000225556	-2.683	0.02091	0.03435	C2CD4D
ENSG00000225899	3.303	0.008789	0.01535	FRG2B
ENSG00000225996	-4.087	0.001698	0.003282	AL356356.1
ENSG00000226124	-1.758	0.01596	0.02677	FTCDNL1
ENSG00000226180	2.364	4.155e-19	2.299e-18	AC010536.1
ENSG00000226763	3.149	1.173e-21	7.327e-21	SRRM5
ENSG00000226777	-2.099	0.0006657	0.001347	KIAA0125
ENSG00000227234	4.494	8.661e-37	1.024e-35	SPANXB2
ENSG00000227500	-1.346	7.475e-24	5.145e-23	SCAMP4
ENSG00000228300	-1.081	1.075e-16	5.27e-16	C19orf24
ENSG00000228570	1.373	0.0004339	0.0008962	NUTM2E
ENSG00000228594	-3.632	3.527e-17	1.775e-16	C1orf233
ENSG00000228696	-1.341	5.328e-13	2.157e-12	ARL17B
ENSG00000228727	-3.011	6.151e-07	1.652e-06	SAPCD1
ENSG00000228804	3.498	0.0009109	0.001814	RP11-211G3.3
ENSG00000229292	4.986	7.036e-07	1.881e-06	RFPL4AL1

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ENSG00000229544	-2.565	6.727e-05	0.0001511	NKX1-2
ENSG00000229644	1.155	1.763e-09	5.721e-09	NAMPTL
ENSG00000229729	2.114	1.717e-14	7.538e-14	RP11-159G9.5
ENSG00000230055	-1.216	8.949e-09	2.756e-08	CISD3
ENSG00000230453	-2.104	1.848e-23	1.247e-22	ANKRD18B
ENSG00000230510	2.238	6.088e-08	1.766e-07	PPP5D1
ENSG00000230567	-2.603	2.715e-55	5.613e-54	FAM203B
ENSG00000231738	3.443	0.005152	0.009314	TSPAN19
ENSG00000231861	3.63	0.0001227	0.0002682	OR5K2
ENSG00000231924	1.522	0.006532	0.01164	PSG1
ENSG00000231925	-1.017	3.285e-16	1.575e-15	TAPBP
ENSG00000232196	4.325	4.953e-14	2.125e-13	MTRNR2L4
ENSG00000232653	-2.5	0.0004256	0.0008802	GOLGA8N
ENSG00000232774	1.213	3.689e-07	1.011e-06	RP11-47I22.3
ENSG00000232810	-1.452	0.01078	0.01859	TNF
ENSG00000232838	-4.667	8.336e-40	1.099e-38	PET117
ENSG00000232859	-2.695	0.0001062	0.0002344	LYRM9
ENSG00000233136	2.698	0.02049	0.03374	USP17L11
ENSG00000233198	-2.106	0.0002197	0.0004688	RNF224
ENSG00000233232	1.82	0.001701	0.003286	NPIPB7
ENSG00000233280	-2.361	4.008e-30	3.594e-29	CRYBG3
ENSG00000233404	-1.952	0.02728	0.04391	FLJ20373
ENSG00000233436	2.01	0.00367	0.00677	BTBD18
ENSG00000233608	-2.142	1.654e-07	4.655e-07	TWIST2
ENSG00000234127	1.388	8.995e-51	1.65e-49	TRIM26
ENSG00000234602	-1.837	2.485e-05	5.8e-05	MCIDAS
ENSG00000234719	1.33	7.587e-07	2.024e-06	RP11-166B2.1
ENSG00000234769	1.268	3.104e-10	1.06e-09	WASH4P
ENSG00000234776	3.481	0.002097	0.00401	C11orf94
ENSG00000235109	1.585	5.857e-17	2.911e-16	ZSCAN31
ENSG00000235156	3.27	0.01154	0.0198	TMEM30C
ENSG00000235173	-2.912	6.918e-47	1.146e-45	FAM203A
ENSG00000235604	4.448	9.791e-37	1.151e-35	SPANXB1
ENSG00000235863	-1.697	0.0002281	0.0004855	B3GALT4
ENSG00000236287	-1.454	1.021e-28	8.696e-28	ZBED5
ENSG00000236669	4.042	0.0005823	0.001187	AC006372.1
ENSG00000237190	-1.434	4.534e-10	1.531e-09	CDKN2AIPNL
ENSG00000237330	2.3	1.005e-20	5.991e-20	RNF223
ENSG00000237515	-1.887	2.483e-26	1.914e-25	SHISA9
ENSG00000237649	-3.441	7.978e-178	1.886e-175	KIFC1
ENSG00000237651	-1.541	6.751e-05	0.0001515	C2orf74
ENSG00000237693	2.973	0.001855	0.003573	IRGM
ENSG00000238227	-3.32	1.799e-111	1.431e-109	C9orf69
ENSG00000239305	1.201	1.409e-31	1.35e-30	RNF103

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ENSG00000239306	-1.84	6.004e-68	1.842e-66	RBM14
ENSG00000239388	-2.072	0.001269	0.00249	ASB14
ENSG00000239789	-1.18	8.706e-10	2.889e-09	MRPS17
ENSG00000240184	-2.047	4.107e-15	1.863e-14	PCDHGC3
ENSG00000240204	-2.755	8.293e-16	3.889e-15	SMKR1
ENSG00000240303	-2.021	1.501e-36	1.747e-35	ACAD11
ENSG00000240563	2.417	0.01268	0.02163	LITD1
ENSG00000240583	-1.529	0.01895	0.03137	AQP1
ENSG00000240682	1.001	4.738e-07	1.286e-06	ISY1
ENSG00000240694	-1.745	0.01012	0.01753	PNMA2
ENSG00000240771	-2.037	8.004e-16	3.755e-15	ARHGEF25
ENSG00000240857	-1.74	2.469e-27	1.979e-26	RDH14
ENSG00000241127	-1.457	6.953e-08	2.01e-07	YAE1D1
ENSG00000241360	-4.998	8.41e-13	3.367e-12	PDXP
ENSG00000241404	-1.593	7.695e-09	2.388e-08	EGFL8
ENSG00000241489	1.191	0.0001856	0.0003987	IDS
ENSG00000241935	-2.726	4.744e-06	1.179e-05	HOGA1
ENSG00000241945	-1.202	1.313e-15	6.099e-15	PWP2
ENSG00000242110	-3.497	1.108e-75	4.105e-74	AMACR
ENSG00000242114	-3.401	2.291e-41	3.187e-40	MTFP1
ENSG00000242259	-1.489	4.93e-10	1.66e-09	C22orf39
ENSG00000242498	-1.501	1.401e-32	1.401e-31	C15orf38
ENSG00000242574	3.034	0.003106	0.005789	HLA-DMB
ENSG00000242612	-1.178	1.946e-10	6.728e-10	DECR2
ENSG00000242802	2.267	2.855e-62	7.512e-61	AP5Z1
ENSG00000242866	2.2	0.001951	0.003746	STRC
ENSG00000242950	2.328	0.02018	0.03327	ERVW-1
ENSG00000243232	-4.527	3.038e-15	1.385e-14	PCDHAC2
ENSG00000243251	-2.593	7.241e-18	3.773e-17	PGBD3
ENSG00000243335	-1.837	1.564e-16	7.598e-16	KCTD7
ENSG00000243364	-1.789	1.258e-08	3.831e-08	EFNA4
ENSG00000243477	-1.945	1.304e-06	3.408e-06	NAT6
ENSG00000243566	-1.351	2.105e-05	4.945e-05	UPK3B
ENSG00000243660	-1.148	5.349e-06	1.324e-05	ZNF487
ENSG00000243667	-1.19	5.681e-17	2.828e-16	WDR92
ENSG00000243811	-3.552	0.0001708	0.000368	APOBEC3D
ENSG00000243896	-1.6	5.883e-06	1.452e-05	OR2A7
ENSG00000243978	2.792	0.002581	0.004872	RGAG1
ENSG00000244005	-1.191	1.893e-11	7.002e-11	NFS1
ENSG00000244122	-3.631	3.877e-09	1.227e-08	UGT1A7
ENSG00000244242	3.155	2.272e-37	2.749e-36	IFITM10
ENSG00000244274	-1.21	1.37e-12	5.419e-12	DBNDD2
ENSG00000244291	-1.595	2.284e-06	5.825e-06	C7orf13
ENSG00000244474	-1.548	0.002905	0.005433	UGT1A4

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ENSG00000244617	-2.774	0.004847	0.008788	ASPRV1
ENSG00000244752	1.831	0.02467	0.03998	CRYBB2
ENSG00000245848	-3.369	5.744e-36	6.573e-35	CEBPA
ENSG00000245888	1.012	0.02228	0.03642	CTD-3203P2.2
ENSG00000247077	-1.037	1.175e-06	3.084e-06	PGAM5
ENSG00000247596	-1.041	3.274e-12	1.263e-11	TWF2
ENSG00000247626	-2.374	6.055e-26	4.601e-25	MARS2
ENSG00000248167	5.374	0.0004086	0.0008469	TRIM39-RPP21
ENSG00000248710	4.238	0.005107	0.009239	RP11-432B6.3
ENSG00000248727	-3.387	0.002124	0.004054	CTC-236F12.4
ENSG00000248751	2.959	5.781e-06	1.428e-05	RP1-130H16.18
ENSG00000248835	-1.824	7.037e-09	2.188e-08	AL357673.1
ENSG00000249104	2.788	0.03036	0.04843	USP17L17
ENSG00000249115	-1.242	1.434e-16	6.989e-16	HAUS5
ENSG00000249158	-3.064	0.00708	0.01255	PCDHA11
ENSG00000249471	-1.2	1.006e-11	3.778e-11	ZNF324B
ENSG00000249709	-1.499	0.00332	0.006157	ZNF564
ENSG00000249773	-3.343	9.878e-17	4.847e-16	MRPS17
ENSG00000249884	3.058	1.72e-05	4.07e-05	RNF103-CHMP3
ENSG00000250021	-4.827	9.869e-15	4.388e-14	C15orf38-AP3S2
ENSG00000250067	1.434	3.37e-14	1.456e-13	YJEFN3
ENSG00000250151	4.188	2.235e-23	1.504e-22	ARPC4-TTLL3
ENSG00000250486	-3.121	0.01125	0.01933	FAM218A
ENSG00000250506	1.27	0.002172	0.004143	CDK3
ENSG00000250565	-1.288	2.087e-13	8.674e-13	ATP6V1E2
ENSG00000250571	-3.043	1.014e-35	1.151e-34	GLI4
ENSG00000250644	2.46	5.677e-16	2.684e-15	RP11-295K3.1
ENSG00000250844	2.595	0.02603	0.04206	USP17L18
ENSG00000251201	1.844	9.287e-15	4.137e-14	TMED7-TICAM2
ENSG00000251247	-2.001	2.095e-07	5.843e-07	ZNF345
ENSG00000251258	-1.208	0.01372	0.02326	RFPL4B
ENSG00000251322	-1.197	1.015e-19	5.779e-19	SHANK3
ENSG00000253276	-2.674	2.018e-54	4.082e-53	CCDC71L
ENSG00000253293	-2.654	0.0002729	0.0005761	HOXA10
ENSG00000253304	-4.017	0.0003747	0.0007797	TMEM200B
ENSG00000253313	-2.571	5.967e-27	4.705e-26	C1orf210
ENSG00000253320	1.318	0.001438	0.002805	KB-1507C5.2
ENSG00000253729	-1.071	1.152e-46	1.894e-45	PRKDC
ENSG00000253831	5.148	1.291e-07	3.67e-07	ETV3L
ENSG00000253846	-3.555	2.476e-09	7.948e-09	PCDHGA10
ENSG00000253958	-2.409	8.383e-08	2.411e-07	CLDN23
ENSG00000254004	-1.541	7.03e-28	5.77e-27	ZNF260
ENSG00000254019	5.11	3.813e-07	1.043e-06	RP11-10J21.3
ENSG00000254206	1.71	5.103e-07	1.38e-06	NP1PB11

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ENSG00000254440	3.097	0.02727	0.04389	PBOV1
ENSG00000254470	-1.524	4.217e-17	2.115e-16	AP5B1
ENSG00000254614	-1.695	3.27e-06	8.251e-06	AP003068.23
ENSG00000254685	-1.963	4.649e-32	4.555e-31	FPGT
ENSG00000254726	-3.044	1.186e-49	2.114e-48	MEX3A
ENSG00000254788	-4.064	2.511e-07	6.966e-07	CKLF-CMTM1
ENSG00000254827	2.148	0.01314	0.02235	SLC22A18AS
ENSG00000254870	3.494	0.02067	0.03399	ATP6V1G2-DDX39B
ENSG00000254873	2.888	1.277e-08	3.886e-08	RP11-770J1.5
ENSG00000254901	-1.316	1.119e-14	4.956e-14	MEF2BNB
ENSG00000255103	-2.941	2.985e-45	4.679e-44	KIAA0754
ENSG00000255112	1.238	7.727e-18	4.016e-17	CHMP1B
ENSG00000255150	3.371	6.71e-60	1.637e-58	EID3
ENSG00000255152	-2.601	3.714e-12	1.428e-11	MSH5-SAPCD1
ENSG00000255181	3.568	0.003053	0.005699	CCDC166
ENSG00000255275	3.881	0.0004089	0.0008475	RP13-279N23.2
ENSG00000255284	-1.454	0.0003749	0.00078	AP006621.5
ENSG00000255339	-2.833	0.002628	0.004954	NDUFB8
ENSG00000255423	2.129	7.832e-12	2.954e-11	EBLN2
ENSG00000255468	-1.603	0.01059	0.01828	RP11-867G23.8
ENSG00000255524	2.242	5.619e-17	2.799e-16	NPIPB8
ENSG00000255526	2.122	0.02712	0.04369	NEDD8-MDP1
ENSG00000255561	-2.663	4.583e-13	1.864e-12	FDXACB1
ENSG00000255587	3.557	0.002199	0.004188	RAB44
ENSG00000255663	3.761	6.378e-05	0.0001436	RP11-212D19.4
ENSG00000255737	-2.866	1.021e-11	3.831e-11	AGAP2-AS1
ENSG00000255835	-1.715	0.001281	0.002512	RP4-559A3.7
ENSG00000255872	3.144	0.01146	0.01968	RP11-613M10.9
ENSG00000255974	3.06	6.249e-05	0.0001409	CYP2A6
ENSG00000256073	-2.051	0.0006418	0.001302	C21orf119
ENSG00000256087	1.7	2.041e-37	2.476e-36	ZNF432
ENSG00000256222	3.602	9.801e-08	2.805e-07	MTRNR2L3
ENSG00000256229	2.074	1.516e-10	5.283e-10	ZNF486
ENSG00000256269	-1.533	2.016e-18	1.08e-17	HMBS
ENSG00000256525	-1.167	1.491e-09	4.866e-09	POLG2
ENSG00000256861	4.715	0.0002768	0.0005841	RP11-512M8.5
ENSG00000256950	2.214	0.01759	0.0293	RP11-87C12.2
ENSG00000256966	-3.03	5.72e-07	1.539e-06	RP11-613M10.8
ENSG00000257046	-3.905	0.007011	0.01245	LST3
ENSG00000257093	-1.777	3.383e-78	1.336e-76	KIAA1147
ENSG00000257207	1.643	1.562e-05	3.711e-05	LIMS3L
ENSG00000257315	1.015	1.003e-11	3.765e-11	ZBED6
ENSG00000257365	-1.865	2.155e-32	2.14e-31	FNTB
ENSG00000257594	-1.715	5.727e-07	1.541e-06	GALNT4

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ENSG00000257743	4.194	0.0004407	0.0009094	RP11-1220K2.2
ENSG00000257949	1.23	0.003848	0.007075	TEN1
ENSG00000258311	-1.648	4.394e-06	1.096e-05	RP11-644F5.10
ENSG00000258366	-1.479	7.171e-10	2.389e-09	RTEL1
ENSG00000258388	-1.397	8.262e-13	3.31e-12	PPT2-EGFL8
ENSG00000258429	-1.708	6.086e-08	1.766e-07	PDF
ENSG00000258472	-1.087	0.008147	0.01432	RP11-192H23.4
ENSG00000258555	-2.049	0.0007312	0.001471	SPECC1L-ADORA2A
ENSG00000258588	-1.028	0.008484	0.01487	TRIM6-TRIM34
ENSG00000258643	2.424	3.297e-06	8.313e-06	BCL2L2-PABPN1
ENSG00000258674	1.102	0.01229	0.02099	CTC-260F20.3
ENSG00000258708	-4.337	1.462e-06	3.803e-06	SLC25A21-AS1
ENSG00000258838	-2.211	0.0004311	0.000891	ERCC6-PGBD3
ENSG00000258947	1.09	2.78e-13	1.147e-12	TUBB3
ENSG00000259120	2.065	0.01069	0.01844	SMIM6
ENSG00000259224	2.649	0.002793	0.005242	SLC35G6
ENSG00000259316	2.137	0.009872	0.01712	CTD-2116N17.1
ENSG00000259399	5.139	0.0001177	0.0002581	TGIF2-C20orf24
ENSG00000259455	4.774	2.853e-06	7.222e-06	RP11-467N20.5
ENSG00000259494	-1.401	3.891e-11	1.411e-10	MRPL46
ENSG00000259511	3.462	0.007056	0.01252	RP11-182J1.16
ENSG00000259522	2.278	0.01039	0.01796	RP11-468E2.2
ENSG00000259529	-1.826	4.785e-17	2.395e-16	RP11-468E2.4
ENSG00000259642	-2.716	3.616e-11	1.313e-10	C15orf37
ENSG00000259803	-1.231	6.489e-06	1.595e-05	SLC22A31
ENSG00000260027	-1.756	9.283e-29	7.922e-28	HOXB7
ENSG00000260272	4.832	0.0001908	0.0004091	RP11-20I23.1
ENSG00000261272	3.857	0.01051	0.01815	MUC22
ENSG00000261732	1.699	0.002499	0.004724	LA16c-431H6.6
ENSG00000261884	-1.481	3.581e-06	8.998e-06	CTC-479C5.12
ENSG00000262180	1.948	4.189e-06	1.047e-05	OCLM
ENSG00000262246	-1.063	0.002312	0.004389	CORO7
ENSG00000262304	-3.291	1.103e-27	8.984e-27	SHPK
ENSG00000262484	2.202	0.0004562	0.0009396	CTC-360G5.1
ENSG00000262621	-1.225	0.002822	0.005289	NAA60
ENSG00000262664	1.07	2.713e-09	8.682e-09	OVCA2
ENSG00000262814	-1.663	1.888e-25	1.403e-24	MRPL12
ENSG00000263020	1.772	8.367e-08	2.407e-07	CSNK2B-LY6G5B-1181
ENSG00000263053	-2.028	0.005887	0.01055	RP11-1055B8.6
ENSG00000263136	-4.023	1.369e-15	6.346e-15	PAGR1
ENSG00000263155	-5.197	6.85e-05	0.0001537	MYZAP
ENSG00000263563	1.001	0.01613	0.02704	UBBP4
ENSG00000263812	4.234	8.79e-05	0.0001953	LINC00908
ENSG00000264058	-3.212	5.37e-16	2.543e-15	KRT222

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ENSG00000265690	-1.902	3.62e-05	8.334e-05	RP11-5A19.5
ENSG00000265817	-2.253	0.01584	0.02659	FSBP
ENSG00000266208	-2.851	1.249e-18	6.771e-18	CTD-2267D19.3
ENSG00000267270	1.163	0.02839	0.04553	AC139100.2
ENSG00000267426	-2.447	0.007665	0.01353	RP11-552F3.12
ENSG00000267534	-2.079	0.0004914	0.001009	S1PR2
ENSG00000267706	3.202	0.003995	0.007329	CTD-2105E13.6
ENSG00000267740	1.359	0.02918	0.04668	AC024592.12
ENSG00000267796	1.949	6.093e-22	3.839e-21	LIN37
ENSG00000267848	2.032	1.077e-09	3.554e-09	AL118506.1
ENSG00000267882	2.078	0.02301	0.03752	AL031666.2
ENSG00000267952	6.949	1.686e-06	4.359e-06	CTD-2207O23.12
ENSG00000267976	2.726	0.006472	0.01154	AP000695.1
ENSG00000267979	2.929	0.02653	0.04281	AC092964.2
ENSG00000268083	4.937	0.001087	0.002149	AC104534.3
ENSG00000268172	3.845	6.424e-12	2.437e-11	AL590452.1
ENSG00000268194	4.737	1.683e-07	4.732e-07	FLJ14816
ENSG00000268218	3.663	9.84e-18	5.096e-17	AC137932.1
ENSG00000268223	4.722	2.279e-08	6.821e-08	ARL14EPL
ENSG00000268400	3.321	0.002381	0.004513	CTD-3214H19.4
ENSG00000268466	2.017	7.469e-07	1.994e-06	AL132989.1
ENSG00000268470	4.212	1.824e-06	4.698e-06	DNAH17-AS1
ENSG00000268635	2.946	0.0007853	0.001575	DKFZP434E1119
ENSG00000268643	2.921	0.01952	0.03225	AC006486.9
ENSG00000268790	4.244	4.63e-07	1.257e-06	CTC-429P9.4
ENSG00000268852	1.445	2.65e-07	7.339e-07	AC132872.2
ENSG00000268863	-2.632	0.02431	0.03946	AC135048.1
ENSG00000268865	3.344	0.002103	0.004021	AC026310.1
ENSG00000268950	2.025	0.0001467	0.0003184	AC114494.1
ENSG00000269028	1.719	0.0002199	0.000469	MTRNR2L12
ENSG00000269089	2.178	0.0003415	0.0007139	AP003733.1
ENSG00000269165	1.188	0.02952	0.04719	AC069547.1
ENSG00000269190	-1.029	1.713e-08	5.168e-08	FBXO17
ENSG00000269223	2.983	0.005593	0.01006	AL158091.1
ENSG00000269305	3.485	4.56e-06	1.136e-05	AL158147.2
ENSG00000269476	2.716	0.01139	0.01956	CTD-2583A14.9
ENSG00000269510	3.166	0.002192	0.004177	FLJ00273
ENSG00000269545	3.515	0.0001121	0.0002468	CTD-3138B18.4
ENSG00000269549	3.885	3.443e-10	1.172e-09	AL031663.2
ENSG00000269636	-3.57	0.002032	0.003892	AC010441.1
ENSG00000269657	1.632	0.01065	0.01838	AC079210.1
ENSG00000269690	-1.468	0.007495	0.01324	AC096677.1
ENSG00000269741	-1.426	0.002494	0.004715	KLK9
ENSG00000269781	1.773	0.0002396	0.0005088	FLJ20306

ENSG00000269783	1.744	0.007314	0.01294	GOLGA7B
ENSG00000269858	-1.109	1.09e-13	4.598e-13	EGLN2
ENSG00000269866	2.865	0.01353	0.02297	FKSG63
ENSG00000270011	1.614	0.0001715	0.0003694	ZNF177
ENSG00000270181	9.112	1.297e-12	5.133e-12	BIVM-ERCC5
ENSG00000270299	3.643	2.978e-07	8.22e-07	RP5-850E9.3
ENSG00000270757	7.973	4.021e-05	9.225e-05	HSPE1-MOB4
ENSG00000270898	2.919	0.01289	0.02195	ASB3
ENSG00000271303	2.469	3.411e-75	1.253e-73	SRXN1
ENSG00000271741	-4.252	1.486e-11	5.525e-11	ZMYM6
ENSG00000272047	-1.239	1.217e-11	4.55e-11	GTF2H5
ENSG00000272325	-1.192	3.577e-22	2.279e-21	NUDT3
ENSG00000272514	-2.332	0.0001955	0.0004187	C6ORF165
ENSG00000272772	2.152	0.02742	0.04409	CTD-2410N18.5
ENSG00000272869	5.526	3.975e-22	2.528e-21	CTC-487M23.8
ENSG00000273003	3.671	3.284e-06	8.284e-06	RP11-399J13.3
ENSG00000273045	-3.113	6.944e-21	4.178e-20	C2ORF15
ENSG00000273170	-1.848	0.006302	0.01126	ANKRD18A
ENSG00000273266	-1.728	0.004346	0.007933	HOXC4
ENSG00000273274	3.11	0.000362	0.0007546	ZBTB8B
ENSG00000273331	3.457	1.481e-20	8.756e-20	TM4SF19
ENSGR0000185291	2.814	3.568e-10	1.213e-09	IL3RA
ENSGR0000197976	1.311	2.09e-20	1.231e-19	AKAP17A

Table S3 Pharmacokinetic parameters (PK) of Cu-DMSA-HA and Cu-DMSA-PEG NPs in mice following a single intravenous dose (2 mg/kg; n=3)

Parameter	Cu-DMSA-PEG	Cu-DMSA-HA
C_{max} ($\mu\text{g/mL}$)	275.7 ± 13.7	212.2 ± 8.9
T_{max} (h)	0.5 ± 0.0	0.5 ± 0.0
$t_{1/2}$ (h)	6.4 ± 0.8	7.8 ± 0.41
MRT (h)	9.2 ± 0.9	12.4 ± 0.5
V_{ss} (mL/kg)	29.0 ± 3.0	52.1 ± 2.8
AUC_{0-t} ($\mu\text{g}\cdot\text{h/mL}$)	628.4 ± 17.3	470.9 ± 17.8
$AUC_{0-\infty}$ ($\mu\text{g}\cdot\text{h/mL}$)	635.8 ± 24.6	476.3 ± 15.0
CL (mL/h/kg)	3.15 ± 0.12	4.20 ± 0.15