

Materials and Methods

Cell culture

HEK 293FT (Invitrogen) cells were maintained in DMEM medium supplemented with 10% fetal bovine serum, 100 U/ml penicillin, and 100 µg/ml streptomycin. U937, MM1S, KMS34, KMS11, L363, RPMI8226 and OCImy5 cells were cultured in RPMI medium containing 10% fetal bovine serum, 100 U/ml penicillin, and 100 µg/ml streptomycin. Stable cell lines were established by lentiviral infection followed by fluorescence activated cell sorting or growth in media containing 0.5 or 2 µg/ml puromycin, 10 µg/ml blasticidin, or 200 µg/ml hygromycin.

Luciferase ORF Fusion Library Construction

The destination vector pCMV-IRES-Renilla Luciferase-IRES-Gateway-Firefly Luciferase (pIRIGF) was constructed by overlapping PCR. The human ORFeome library V5.1 was shuttled into pIRIGF via LR gateway recombination (Invitrogen). After recombination overnight at 25 °C, 1 µL of reaction mix was transformed into 10 µL of OmniMAX 2T1 competent cells (Invitrogen) in 96-well plate through heat shock at 42 °C for 1 minute. 100 µL of SOC media were added into each well and the transformation mixtures were incubated at 37 °C for 1 hour. Next, each mixture was transferred into 1mL 2x YT media containing 100 µg/mL ampicillin using 96-well deep well plates (Qiagen). After shaking overnight at 37 °C, transformants were collected by centrifugation and plasmids were extracted using the DirectPrep 96 BioRobot Kit (Qiagen).

384-well Dual-glo luciferase screen

To transfect the ORF luciferase fusion library into 293FT cells seeded in 384-well plates, 25 µl of media containing 7000 cells was plated about 10 minutes prior to adding the DNA/transfection mixture. Using a Beckman FX pod head of 96-disposable tips, individual DNA plasmid solutions (5 µl) arrayed according to the original ORFeome V5.1 map (169 library plates) were diluted into 20 µl of Opti-MEM reduced serum media. 20 µl of diluted plasmid was then mixed with 20 µl of diluted Lipofectamine 2000 (Invitrogen) [1:15, diluted in Opti-MEM reduced serum media]. After 5 minutes at room temperature, 3 µl of this DNA/lipofectamine solution was added into 4 well quadrants of two identical 384-well plates (total of 8 wells) corresponding to the single 96-well source solution. The cells were then grown for 26-28 hours under standard growth conditions. An 8-channel multi-drop dispenser was used to add 5 µl of a 13.3 µM solution of lenalidomide (final 2 µM; Selleck Chemicals #S1029) to one plate and 0.13% DMSO to the other plate and the cells were allowed to grow for an additional 17- 20 hours. Expression of firefly and renilla luciferase were quantified using the Dual-glo assay according to manufacturer's instructions (Promega #E2940). For data analysis, the raw counts per second (CPS) were first normalized for total transfection efficiency by dividing the firefly CPS by renilla CPS (Fluc/Rluc) from each well. Then the four replicate well ratios on each plate were averaged and the standard deviation was determined. The lenalidomide (LEN) induced changes were then determined for each ORF by dividing the averaged Fluc/Rluc ratio from the LEN plate by the DMSO control plate (change of Fluc/Rluc). Data associated with all significant changes in ratio were confirmed to originate from raw data significantly above background signal. Any

quadruplicate data that had >50% standard deviation was eliminated from further analysis in order to quickly remove most of the data from low expression plasmids and otherwise error prone data. Most of the excluded data were from low expressing clones. The remaining data (13,372 out of 15,483 ORF's) were then fit to a log normal distribution with mean LEN/DMSO ratio of 1.02 ± 0.18 , and a list of ORF whose ratio was increased (61) or decreased (46) by 3 standard deviations was generated for follow-up testing.

96-well Dual-glo luciferase assay

To verify the change of Fluc/Rluc of ORFs obtained from the 384-well high-throughput screen, each clone was further tested in a 96 well format. The day before transfection, 293FT cells were seeded into solid opaque 96-well plates (BD biosciences) with 20,000 cells in 100 μ l of DMEM culture media per well. On the day of transfection 96-well polypropylene plates (Greiner) were used to prepare the transfection mixture. First, a plasmid mixture containing 240 ng of ORF luciferase fusion clone and 480 ng of pcDNA3 was diluted into 120 μ l of Opti-MEM reduced serum. Next 14.4 μ L of Lipofectamine 2000 was diluted into 120 μ l of Opti-MEM reduced serum. 5 minutes later, the plasmid solution was mixed with the diluted Lipofectamine 2000 using a multi-channel pipette. After 30 minutes, 28 μ l of DNA/lipofectamine mixture was added to each well of the 96 well plates seeded with 293FT cells (8 wells for each ORF). 24 hours after transfection, cells were treated with LEN (2 μ M) or DMSO in quadruplicate. 36 hours after transfection, the firefly and renilla luciferase signals were quantified using the Dual-glo assay according to manufacturer's instructions. The ratio of FLuc/Rluc was calculated for each well. To determine the change of Fluc/Rluc for each ORF, the averaged Fluc/Rluc of LEN treated wells was divided by that of DMSO treated wells. A 2-tailed Student's t test was performed to determine the statistical significance. P value < 0.05 was considered significant.

Plasmids

Human IKZF4 cDNA clone was PCR amplified from ETS clone HsCD00295530 (PlasmID, DF/HCC DNA Resource Core), and then cloned into pDONR223 via BP gateway recombination. Human CRBN, human IKZF1 splicing variant 2 (IKZF1-V2), human IKZF2 splicing variant 2 (IKZF2-V2), human IKZF5 and human IRF4 in pDONR223 entry vectors were obtained from the human ORFeome Collection (DF/HCC DNA Resource Core). IKZF1 splicing variant 1 (IKZF1-V1) cDNA and human IKZF2 splicing variant 1 (IKZF2-V1) cDNA were generated by overlapping PCR and cloned into pDONR223 via BP gateway recombination. IKZF4, IKZF1-V1 and IKZF2-V1 were cloned into pIRIGF via LR gateway recombination. IKZF1/2 chimeras (IKZF12 H1, IKZF12 H2, IKZF12 H3, IKZF12 H4, IKZF21 H5, IKZF21 H6, IKZF21 H7, IKZF2 H8, IKZF121 and IKZF212), IKZF1-V2-Q146H, IKZF1-V2- H176P/L177F, IKZF2-V1-H141Q, IKZF2-V1-P171H/F172L, IKZF1-V1-Q146H, IKZF3-Q147H mutants were generated via overlapping PCR and cloned into pIRIGF via LR gateway recombination. IKZF1-V2, IKZF2-V2, IKZF3, IKZF4, IKZF5 and IRF4 were cloned into plenti-UBC-gate-3xHA-pGK-PUR via LR gateway recombination. IKZF1-V2, IKZF121, IKZF1-V2-Q146H, IKZF1-V2- H176P/L177F, IKZF2-V1-H141Q, IKZF2-V1-P171H/F172L, IKZF212, IKZF1-V1, IKZF1-V1-Q146H, IKZF3 and IKZF3-Q147H were cloned into plenti-UBC-gate-3xHA-pGK-HYG. IKZF1-V2 and IKZF2-V2 were cloned into pcDNA3.2-DEST (Invitrogen) and plenti-UBC-gate-FLAG-pGK-HYG via LR gateway

recombination. IKZF1-V1, IKZF1-V1-Q146H, IKZF3, IKZF3-Q147H, IKZF2-V2 and IRF4 were cloned into plenti-CAG-gate-FLAG-IRES-GFP via LR recombination. CRBN-Y383A/W385A (YWAA) mutant was generated by overlapping PCR and cloned into pDON223 via BP recombination. CRBN and YWAA were cloned into pcDNA3-FLAG-gate-pGK-HYG, plenti-UBC-FLAG-gate-pGK-HYG, plenti-UBC-HA-gate-pGK-HYG, and plenti-UBC-Myc-gate-pGK-HYG via LR recombination. The cDNAs within the lentiviral expression vectors were confirmed by DNA sequencing.

CRISPR genome editing

The CRBN gene editing vectors were generated by cloning the annealed oligonucleotide pair into pX330 digested with BbsI (16) (CRBN T1 Forward 5'-CACCGTCCTGCTGATCTCCTTCGC-3', CRBN T1 Reverse 5'-AAACGCGAAGGAGATCAGCAGGAC-3'; CRBN T2 Forward 5'-CACCGAAACAGACATGGCCGGCGA-3', CRBN T2 Reverse 5'-AAACTCGCCGGCCATGTCTGTTTC-3'). 293FT cells seeded in a 12-well plate were transiently transfected with 1µg of CRBN pX330 editing vector using Lipofectamine 2000. Three days after transfection, cells were trypsinized, placed in fresh growth media, and seeded into 96 well plates via serial dilution to obtain single clones. Two weeks later, single clones were picked and expanded to verify the editing of CRBN by immunoblot analysis. To target MM1S cells, the CRBN pX330 editing vector was shuttled into a lentiviral backbone containing a pGK-Pur cassette. MM1S cells were then infected with plenti-CRBN CRISPR pGK-pur and selected with 0.5 µg/mL puromycin for three days. Stable cells were plated in 96 well plates via limiting dilution. Four weeks later, single clones were expanded and *CRBN*^{-/-} clones were identified by immunoblot analysis.

Immunoblotting

Cells were washed twice with ice cold PBS and harvested in Buffer A [50 mM Tris (pH 7.4), 150 mM NaCl, 1% Triton X-100, 1 mM EDTA, 1 mM EGTA, 1 mM β-glycerophosphate, 2.5 mM sodium pyrophosphate, 1 mM Na₃VO₄, 10 mM NaF, and 1x protease inhibitor (Roche)]. Whole cell extracts were resolved by SDS-polyacrylamide gel electrophoresis, transferred onto a nitrocellulose membrane, and probed with the indicated primary antibodies. Bound antibodies were detected with horseradish peroxidase-conjugated secondary antibodies (Pierce) and enhanced chemiluminescence (ECL) western blotting detection reagents (Pierce) or Immobilon western chemiluminescent horseradish peroxidase substrate (Millipore).

Antibodies

The following antibodies were used: HRP conjugated anti-FLAG M2 mouse monoclonal antibody (Sigma), HRP conjugated anti-HA mouse monoclonal antibody (Cell signaling), HRP conjugated anti-Myc mouse monoclonal antibody (Cell Signaling), FLAG M2 mouse monoclonal antibody (Sigma), CRBN rabbit polyclonal antibody (Novus Biologicals), IKZF1 rabbit polyclonal antibody (Cell Signaling, for immunoblot), IKZF1 rabbit polyclonal antibody (Bethyl, for chromatin immunoprecipitation), IKZF2 rabbit polyclonal antibody (Bethyl), IKZF3 rabbit polyclonal antibody (Imginex), HA.11 mouse monoclonal antibody (Covance), Vinculin mouse monoclonal antibody (Sigma), DDB1 rabbit polyclonal antibody (Cell Signaling), IRF4 rabbit polyclonal antibody (Cell Signaling), Cul4A rabbit polyclonal antibody (Cell Signaling), Goat anti-rabbit HRP

conjugated antibody (Thermo Scientific), Goat anti-mouse HRP conjugated antibody (Thermo Scientific).

Immunoprecipitation

Cells were lysed in Buffer B [50 mM Tris (pH 7.4), 150 mM NaCl, 0.5% NP-40, 1 mM β -glycerophosphate, 2.5 mM sodium pyrophosphate 1 mM Na₃VO₄, 10 mM NaF, and 1x protease inhibitor (Roche)]. The lysates were clarified by centrifugation and then mixed with primary antibody for 12 hours at 4 °C. Where indicated, LEN (2 μ M) or DMSO were used to treat the cells prior to cell lysis (Pre), or added into whole cell extracts after cell lysis (Post). Immune complexes were captured with protein G agarose beads (Roche) for 1 hour at 4 °C and then washed 6 times with Buffer B. For anti-FLAG immunoprecipitation, cell extracts were pre-cleared with protein G agarose beads at 4 °C for 1 hour and then incubated with anti-FLAG M2 agarose beads at 4 °C for 6 hours, followed by six washes with Buffer B. Bound proteins were eluted by boiling in SDS loading buffer and detected by immunoblot analysis.

Postlysis Binding Assays (Mixing Experiments)

293FT *CRBN*^{-/-} T11 (CRIPSR T1 clone 1) cells infected with lentiviral vectors expressing FLAG-tagged IKZF1 or FLAG-tagged IKZF2, or empty lentiviral vectors were treated with DMSO or LEN (2 μ M) for 12 hour. Cells were then washed with ice-cold PBS twice and lysed in Buffer B. Total cell extract was collected after centrifugation and incubated with anti-FLAG M2 agarose beads at 4 °C overnight. Next, the beads were washed with Buffer B four times. The IKZF1 or IKZF2 loaded beads were then mixed with whole cell lysates prepared from 293FT *CRBN*^{+/+} cells treated with DMSO or LEN (2 μ M) for 12 hour prior to cell lysis (Pre). After binding overnight at 4 °C, the agarose was washed six times with Buffer B. Bound proteins were then eluted by boiling in SDS loading buffer, resolved by SDS-PAGE, and detected by immunoblot analysis. The binding of FLAG-tagged IKZF1 with endogenous cereblon was also assayed using 293FT cell extracts that were treated with LEN (2 μ M) or DMSO post cell lysis (Post).

To assay binding of FLAG-tagged IKZF1 to exogenous cereblon, the IKZF1 loaded anti-FLAG M2 agarose beads were washed four times with Buffer B and then mixed with whole cell extracts prepared from 293FT *CRBN* null T11 cells (transiently transfected with HA-tagged cereblon (*CRBN*) or cereblon mutant (YWAA) and treated with DMSO or LEN (2 μ M) for 12 hour before lysis). After binding overnight at 4 °C, the agarose was washed six times with Buffer B. Bound proteins were then eluted by boiling in SDS loading buffer, resolved by SDS-PAGE, and detected by immunoblot analysis.

To assay binding of recombinant cereblon with endogenous IKZF1 and IKZF3, FLAG-tagged *CRBN* or YWAA mutant transiently expressed in 293FT *CRBN*^{-/-} T11 cells was immunoprecipitated using anti-FLAG M2 agarose beads. The cereblon loading beads were washed four times with Buffer B and then mixed with MM1S *CRBN*^{-/-} T11 cell extracts that were treated with LEN (10 μ M) or DMSO after cell lysis. After binding overnight at 4 °C, the agarose was washed six times with Buffer B. Bound proteins were then eluted by boiling in SDS loading buffer, resolved by SDS-PAGE, and detected by immunoblot analysis.

In vitro Binding and Ubiquitylation Assay

293FT CRBN null T11 cells were transiently transfected with plasmids encoding Myc-tagged cereblon (CRBN) or cereblon mutant (YWAA), HA-tagged IKZF1, or with empty vector (EV). 48 hours later, the cells were washed twice with ice cold PBS and lysed in Buffer B. Myc-CRBN or Myc-YWAA cell extracts were mixed with HA-IKZF1 extract in the absence or presence of LEN (2 μ M) or DMSO. Anti-Myc antibody conjugated agarose beads (Sigma) were then added to mixed extracts, following by incubation at 4 °C for 12 hours. As a negative control, 5% of the HA-IKZF1 extract used to mix with CRBN extract was mixed with extracts from the empty vector cells and then incubated with anti-HA antibody conjugated beads (Sigma). Next, the beads were washed four times with buffer B, twice with 1xURB buffer [50 mM Tris (pH 7.4), 5 mM KCl, 5 mM NaF, 5 mM MgCl₂, 0.5 mM DTT], and then resuspended in 20 μ L of 1 x URB buffer containing 200 ng recombinant E1 (Boston Biochem), 250 ng recombinant UbcH5a (Boston Biochem), 250 ng recombinant UbcH5b (Boston Biochem), 0.4 μ M Ubiquitin aldehyde (Boston Biochem), 10 μ g FLAG Ubiquitin (Boston Biochem), 1 x ERS (20 mM creatine phosphate, 0.2 μ g/ μ l creatine phosphokinase, 5 mM Mg-ATP), 1x Protease/phosphatase inhibitor (Roche), 10 nM LLNL (Boston Biochem), 10 nM MG132 (EMD Bioscience), 0.5 mM ATP. The reaction was carried out at 30 °C for 1 hour and then terminated by boiling in SDS loading buffer. Ubiquitylation products were resolved by SDS-PAGE and detected by immunoblot analysis.

In vivo Ubiquitylation Assay

The ubiquitylation assays were carried out as described previously (30). In brief, 293FT cells seeded in 6 well plates were transiently transfected with the following plasmids as indicated in Figure 3C: pcDNA3-IKZF1-V2-V5 (1 μ g), pcDNA3-FLAG-CRBN (1 μ g), pcDNA3-FLAG-YWAA (1 μ g) and pCMV-8 x His-Ub (0.5 μ g). Empty vector pcDNA3 was used to bring the total plasmid DNA to 4 μ g for each transfection. Thirty-six hours later, cells were treated with LEN (2 μ M) or DMSO as well as 10 μ M MG132 for additional 12 hours. The cells were then washed twice with ice cold PBS, scraped off the plates in PBS and then collected by centrifugation. A small aliquot of the cells was lysed in Buffer A, and the rest were lysed in Buffer C (6M guanidine-HCL, 0.1M Na₂HPO₄/NaH₂PO₄, 10 mM imidazole, pH 8.0). After sonication, the whole cell extract were mixed with 25 μ L of Ni-NTA agarose beads at room temperature for 3 hours. Next, the Ni-NTA beads were washed twice with Buffer C, twice with Buffer D (1 Volume of Buffer C: 3 volumes of Buffer E), and once with Buffer E (25 mM Tris.CL, 20 mM imidazole, pH 6.8). Bound proteins were then eluted by boiling in 1x SDS loading buffer containing 300 mM imidazole, resolved by SDS polyacrylamide gel electrophoresis, and detected by immunoblot analysis.

In vivo Protein Degradation Assay

293FT cells seeded in 12-well plates were transiently transfected with 50 ng of plenti-UBC-pGK-HYG or plenti-UBC-pGK-Pur lentiviral vectors expressing the indicated ORFs and 950 ng of the corresponding empty lentiviral vector. Thirty-six hours later, cells were treated with DMSO, LEN (2 μ M) or POM (0.2 μ M) for 12 hours. Cell extracts were harvested using Buffer A and subjected to immunoblot analysis.

Protein Half Life Analysis

For cycloheximide assays, cells were pretreated with DMSO or LEN (2 μ M) for 1 hour, and then 100 μ g/ml cycloheximide (Sigma) was added into the DMEM growth medium. At various time points thereafter cell extracts were harvested using Buffer A and subjected to immunoblot analysis.

Realtime RT-PCR

Total RNA was extracted using Qiagen RNeasy Mini Kit with on-column DNase digestion. Total RNA was reverse transcribed into first-strand cDNA using AffinityScript QPCR cDNA Synthesis Kit (Agilent) with random primers. Real-time PCR was performed in duplicate using RT2 SYBR Green / ROX qPCR Master Mix (Qiagen) and the Mx3000P QPCR system (Stratagene). Values were averaged to calculate the expression level and normalized against the level of RPS18. PCR primers are as follows:

RPS18 For, 5'-TTCGGAAGTGGGCCATGAT-3'
RPS18 Rev, 5'-TTTCGCTCTGGTCCGTCTTG-3'
IKZF1 For, 5'-CCCCTGTAAGCGATACTCCA-3'
IKZF1 Rev, 5'-TGGGAGCCATTCATTTTCTC-3'
IKZF3 For, 5'-TCGGAGATGGTTCCAGTTATCA-3'
IKZF3 Rev, 5'-ATTCTGGCGTTCTTCATGGTT-3'
IRF4 For, 5'-GCGGTGCGCTTTGAACAAG-3'
IRF4 Rev, 5'-ACACTTTGTACGGGTCTGAGA-3'

Lentiviral shRNA Vectors

Synthetic complementary oligonucleotides targeting the mRNA of interest were annealed and subcloned as follows: Oligonucleotides targeting CRBN or a control oligonucleotide pair (shCNTL) ligated into pLKO-tet-on-puro (31). Oligonucleotides targeting IKZF1 and IKZF3 and shCNTL were ligated into pLKO-RFP (a gift from Dr. Julie Losman). Targeting sequences are listed as follows:

shCNTL, 5'-CAACAAGATGAAGAGCACCAA-3';
shCRBN-1, 5'-GCCACGAATAGTTGTCATTT-3';
shCRBN-2, 5'-GCTTGCAACTTGAATCTGATA-3';
shIKZF1-1, 5'-GCATTTGGAAACGGGAATAAA-3'
shIKZF1-2, 5'-CTACGAGAAGGAGAACGAAAT-3'
shIKZF1-3, 5'-CCGCTTCCACATGAGCTAAAG-3'
shIKZF3-1, 5'-GCCTGAAATCCCTTACAGCTA-3'
shIKZF3-2, 5'-GTAACCTCCTCCGCCACATTA-3'
shIKZF3-3, 5'-GACAGTCTAAGAGTAAGTAAA-3'

cDNA depletion or enrichment assay

MM1S cells were infected with plenti-CAG-FLAG-IRES-GFP empty vector or plenti-CAG-FLAG-IRES-GFP vectors expressing IKZF1-V1-Q146H, IKZF3-Q147H, IKZF2-V2 or IRF4. 48 hours after infection, 2 μ M LEN or DMSO were added to the culture media. The media was replaced with fresh media containing LEN or DMSO every other day. The percentage of GFP+ cells at the indicated time points thereafter was determined by flow cytometric analysis. The fold change in the percentage of GFP+ cells was calculated by dividing the percentage of LEN treated cells by that of DMSO treated cells.

Small hairpin RNA (shRNA) depletion or enrichment assay

MM1S or KMS34 cells were infected with pLKO-RFP lentiviral vectors expressing control shRNA or shRNAs against IKZF1 or IKZF3. Two days later the percentage of RFP+ cells was monitored using flow cytometer. The change of RFP+ percentage for each shRNA was first normalized against day 2. Then, the relative percentage of RFP+ cells was normalized against shRNA control for each time point as indicated.

Chromatin Immunoprecipitation

ChIP studies were carried out as described previously with several modifications using specific primers for the human IRF4 locus (32). Briefly, 4x10⁷ MM1.S cells were treated 24 hours with 2 μ M LEN or DMSO and crosslinked for 10 minutes at room temperature by the addition of one-tenth of the volume of 11% formaldehyde solution (11% formaldehyde, 50mM HEPES pH 7.3, 100 mM NaCl, 1 mM EDTA pH 8.0, 0.5 mM EGTA pH8.0) to the growth media followed by quenching with 0.125M glycine and two washes with PBS. Fifty μ l of Dynal protein 6 magnetic beads (Sigma) were blocked with 0.5% BSA (w/v) in PBS. Magnetic beads were bound with 10 μ g of the anti-IKZF1 antibody (Bethyl Labs #A303-516A). Crosslinked cells were lysed with lysis buffer 1 (50 mM HEPES-KOH pH 7.5, 140 mM NaCl, 1 mM EDTA pH 8.0, 10% glycerol, 0.5% NP-40, and 0.25% Triton X-100) and washed with lysis buffer 2 (10 mM Tris-HCl pH 8.0, 200 mM NaCl, 1 mM EDTA pH 8.0, and 0.5 mM EGTA pH 8.0). Cells were resuspended and sonicated in lysis buffer 3 (50 mM HEPES-KOH pH 7.5, 140 mM NaCl, 1 mM EDTA pH 8.0, 1 mM EGTA pH 8.0, 1% Triton X-100, 0.1% Na-Deoxycholate and 1% SDS) for 4X 10 minute cycles, 30 second on/off cycles using a Bioruptor sonicator on power setting HIGH. Sonicated lysates were cleared, diluted 1:10 with dilution buffer (50 mM HEPES-KOH pH 7.5, 140 mM NaCl, 1 mM EDTA pH 8.0, 1 mM EGTA pH 8.0, 1% Triton X-100, 0.1% Na-Deoxycholate) and incubated overnight at 4 °C with magnetic beads bound with antibody. Beads were washed two times with lysis buffer 3, once with high salt wash (50 mM HEPES-KOH pH 7.5, 500 mM NaCl, 1 mM EDTA pH 8.0, 1 mM EGTA pH 8.0, 1% Triton X-100, 0.1% Na-Deoxycholate and 0.1% SDS), once with LiCl wash buffer (20 mM Tris-HCl pH 8.0, 1 mM EDTA pH 8.0, 250 mM LiCl, 0.5% NP-40, 0.5% Na-deoxycholate), and once with TE buffer (10 mM Tris-HCl pH 8.0, 1 mM EDTA pH 8.0). Protease inhibitors (Roche Complete) were added to all lysis and wash buffers. Bound complexes were eluted twice in elution buffer (50 mM Tris-HCl pH 8.0, 10 mM EDTA pH 8.0, 1% SDS) at 65 °C for 15 min with occasional vortexing. Crosslinks were reversed overnight at 65 °C. RNA and protein were digested using RNase A and Proteinase K, respectively, and DNA was purified with phenol chloroform extraction and ethanol precipitation. Primers were designed to amplify 2 sites within the promoter region, and a negative control region 3' of the transcribed region: Promoter site 1 (forward) 5'-AGTTGCAGGTTGACCTACGG-3' and (reverse) 5'-AGCTTTCACCCGTTGAGCTT-3'; Promoter site 2 (forward) 5'-ACTCTCAGTTTCACCGCTCG-3' and (reverse) 5'-CTCCGGGTCCTCTCTGGTAT-3'; Negative control region 1 (forward) 5'-CGTGGCTATGTTTGCTTGGG-3' and (reverse) 5'-AGCAGGCCTCTTGTTGTTT-3'; Negative control region 2 (forward) 5'-GCAGTGCTGACACTGGATCT-3' and (reverse) 5'-GCCTGCCATGCGTAATCAAG-

3'. Enrichment data were analyzed by calculating the immunoprecipitated DNA percentage of input DNA for each sample.

Cell Proliferation Assay

1.5 x 10⁶ viable myeloma cells were plated in 10-cm plates in RPMI1640 growth media containing LEN (2 μM) or DMSO vehicle control in triplicates. Every 2 days, cells were detached by gentle scraping and half of the total cells were replated in fresh RPMI growth media containing the respective agents (LEN or DMSO) for continuous culturing. At day 2, day 4 and day 8, cells were counted using a ViaCell cell viability counter (Beckman Coulter).

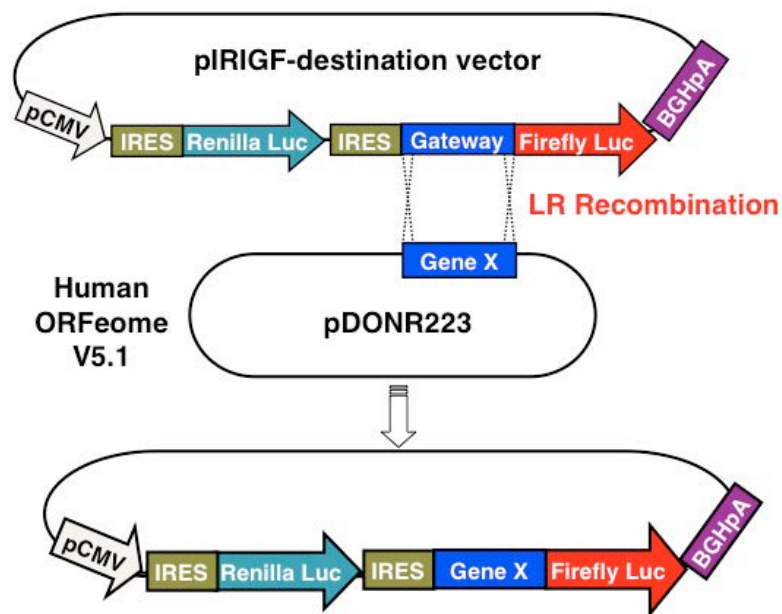


Fig. S1. Firefly Luciferase Fusion Vector Schematic. Schematic of plasmid vectors used to generate open reading frame (ORF)-firefly luciferase fusion library. Note that both renilla luciferase and ORF-firefly luciferase are encoded by a single mRNA and both are translated independently via internal ribosomal binding sites.

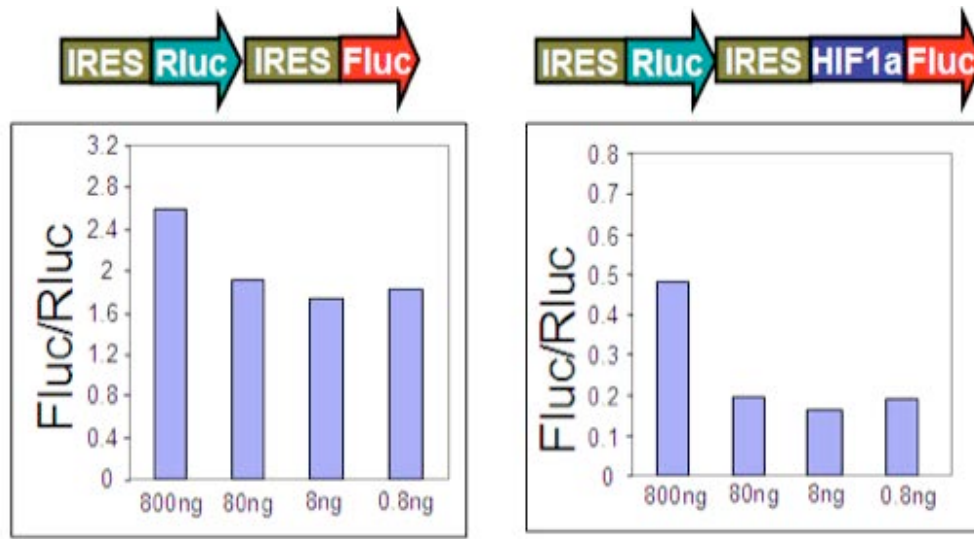


Fig. S2. Firefly/Renilla Luciferase Ratios Are Stable Over a Range of Reporter Plasmid Concentrations. 293FT cells were transiently transfected with the indicated amounts of plasmids encoding firefly luciferase (Fluc) alone (left) or a HIF1 α -Fluc fusion protein (right). Empty pBluescript-KS was added to bring the total plasmid DNA to 800 ng. Dual luciferase assays were performed 48 hours later and Fluc/Rluc was calculated.

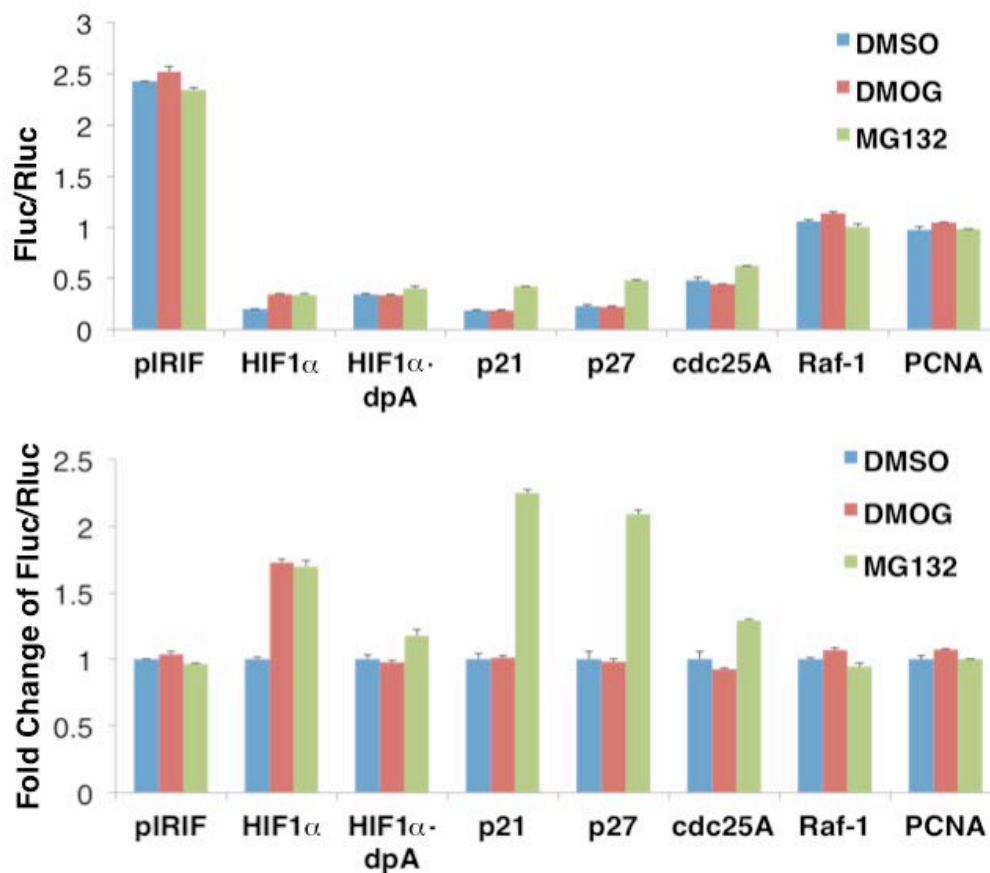


Fig. S3. Pharmacological Stabilization of Firefly Luciferase Fusion Protein. 293FT cells were transiently transfected with plasmids encoding unfused Fluc (pIRIF) or the indicated ORF-firefly luciferase (Fluc) fusions and then treated for 24 hours with DMOG (1 μ M), MG132 (10 μ M), or vehicle (DMSO). HIF1 α -dPA is a HIF1 α variant lacking both prolyl hydroxylation sites (33). Shown for each plasmid are Fluc/Rluc values (top) and Fold change in Fluc/Rluc compared to DMSO treatment (bottom). Data are mean \pm SD, n=4.

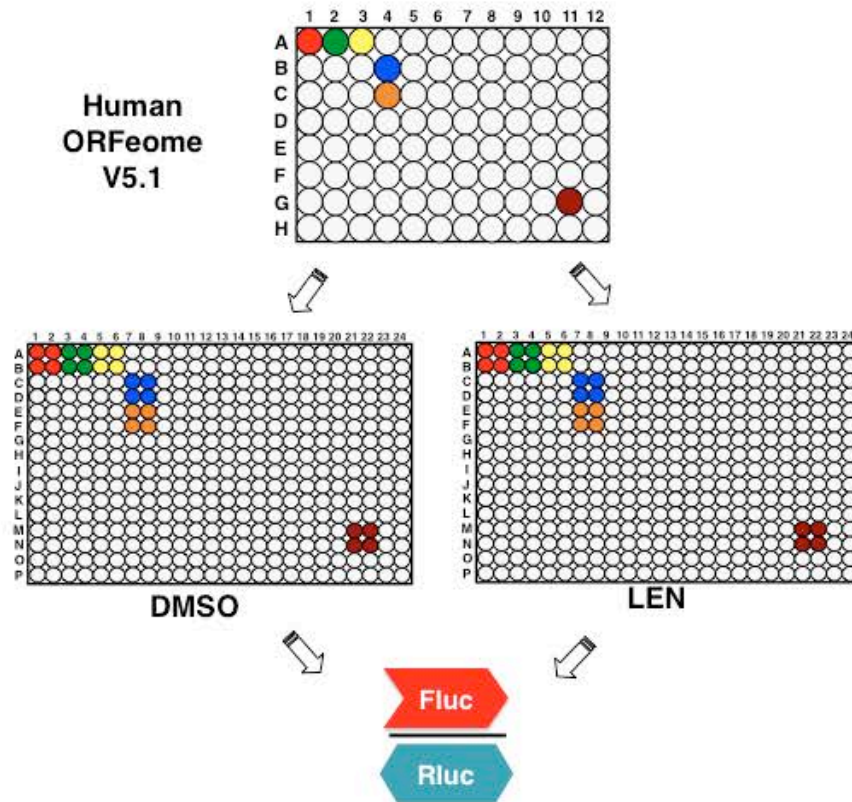


Fig. S4. Plating Strategy for Primary Screen. Schematic depicting plating strategy for primary screen.

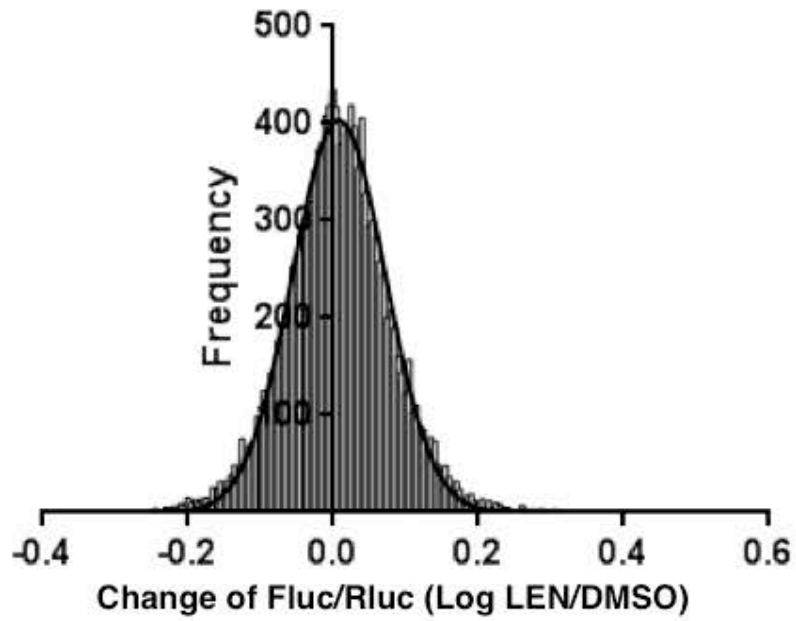


Fig. S5. Normalized Data From Primary Screen of Lenalidomide-Induced Changes in Protein Stability. Distribution of fold increase in firefly luciferase (Fluc)/ renilla luciferase (Rluc) values after treatment with lenalidomide (LEN). Data were normalized by converting fold induction to log₁₀.

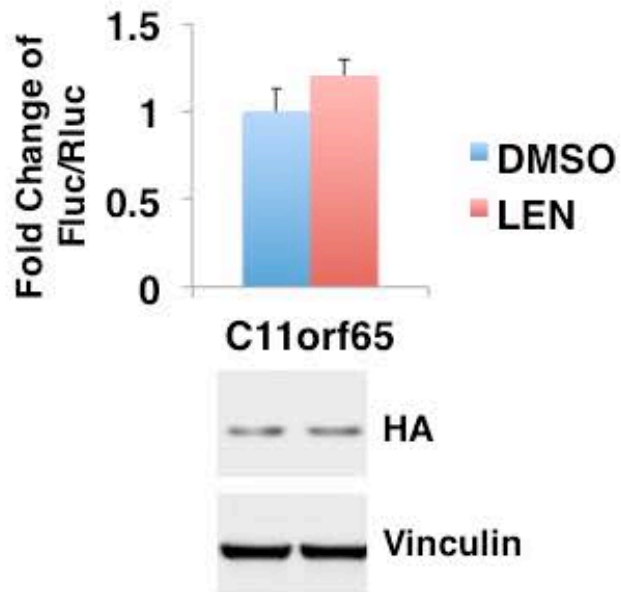


Fig. S6. Retest of C11orf65-Luciferase. Firefly luciferase (Fluc)/renilla luciferase (Rluc) ratios (top panel) and immunoblots (bottom panels) of 293 FT cells transfected to produce C11orf65 fused to firefly luciferase (top panel) or hemagglutinin (HA) epitope tag (bottom panels). Where indicated cells were treated with LEN (2 μ M) for 12 hours. Fluc/Rluc ratios were normalized to DMSO treated cells. Data are mean \pm SD, n=4.

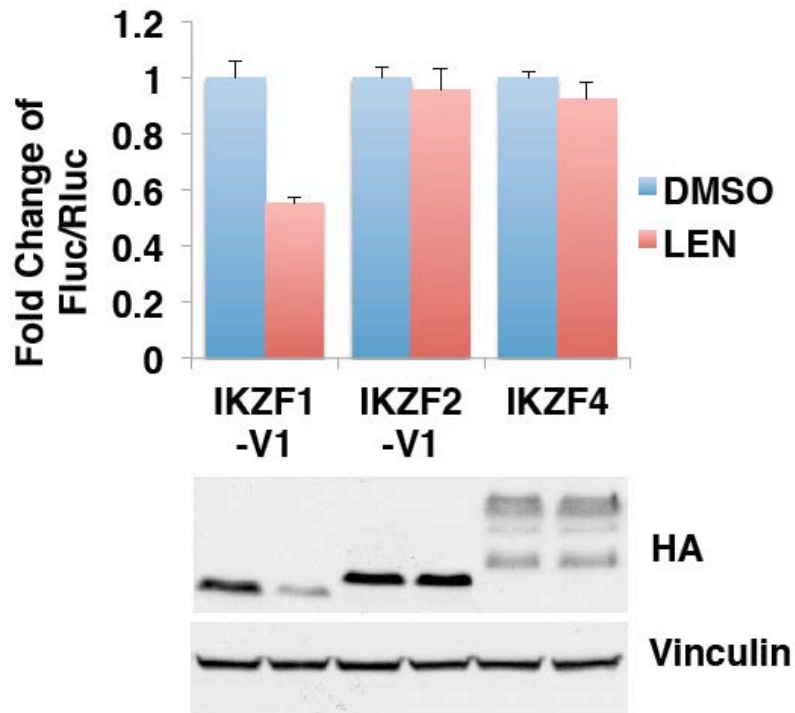


Fig. S7. Downregulation of IKZF1 and IKZF2 Splicing Variants by lenalidomide. Firefly luciferase (Fluc)/Renilla luciferase (Rluc) ratios (top panel) and immunoblots (bottom panels) of 293FT cells transfected to produce the indicated IKZF proteins fused to firefly luciferase (top panel) or hemagglutinin (HA) epitope tag (bottom panels). Where indicated cells were treated with LEN (2 μ M), MLN4924 (1 μ M), and MG132 (10 μ M) for 12 hours. Data are mean \pm SD, n=4.

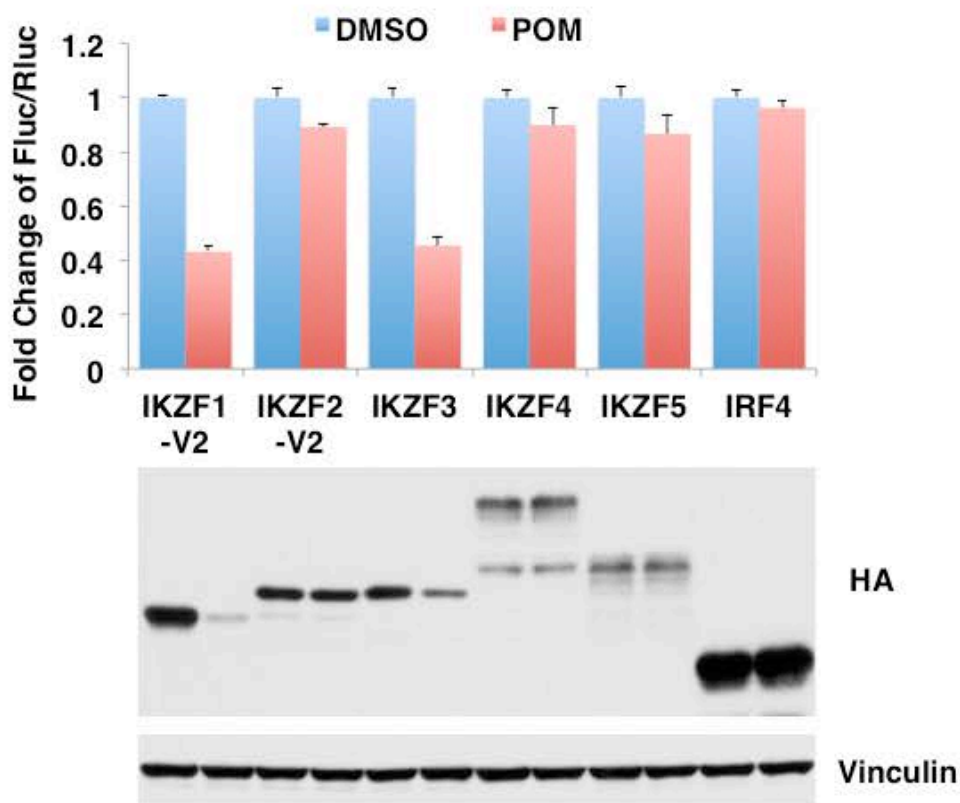


Fig. S8. Downregulation of IKZF1 and IKZF3 by Pomalidomide. Firefly luciferase (Fluc)/renilla luciferase (Rluc) ratios (top panel) and immunoblots (bottom panels) of 293 FT cells transfected to produce the indicated IKZF proteins fused to firefly luciferase (top panel) or hemagglutinin (HA) epitope tag (bottom panels). Where indicated cells were treated with pomalidomide (POM) (0.2 μ M) for 12 hours. Fluc/Rluc ratios were normalized to corresponding DMSO treated cells. Data are mean \pm SD, n=4.

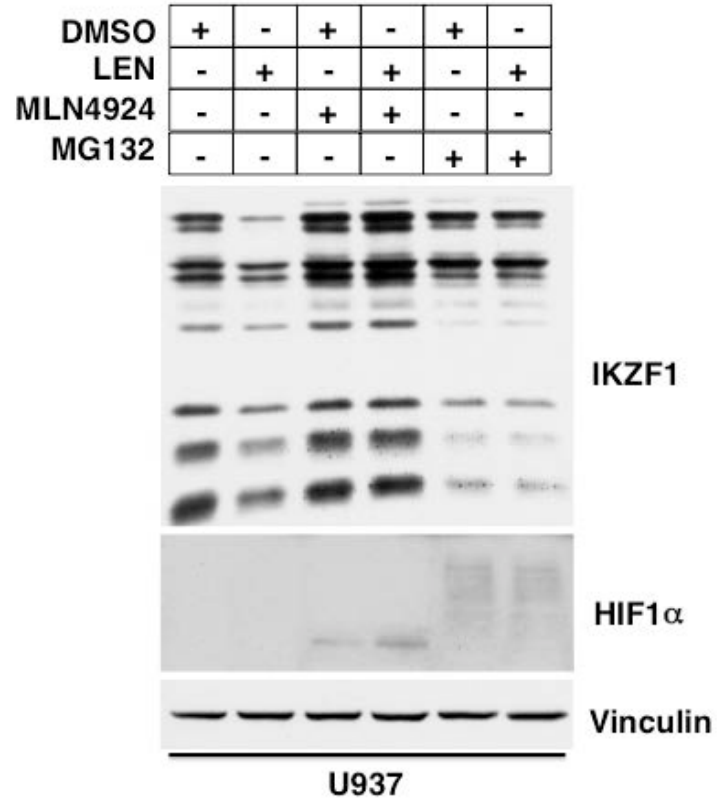


Fig. S9. Downregulation of Endogenous IKZF1 by Lenalidomide in U937 Cells. Immunoblot analysis of U937 cells treated with LEN (2 μ M), MLN4924 (1 μ M) and MG132 (10 μ M), where indicated, for 12 hours.

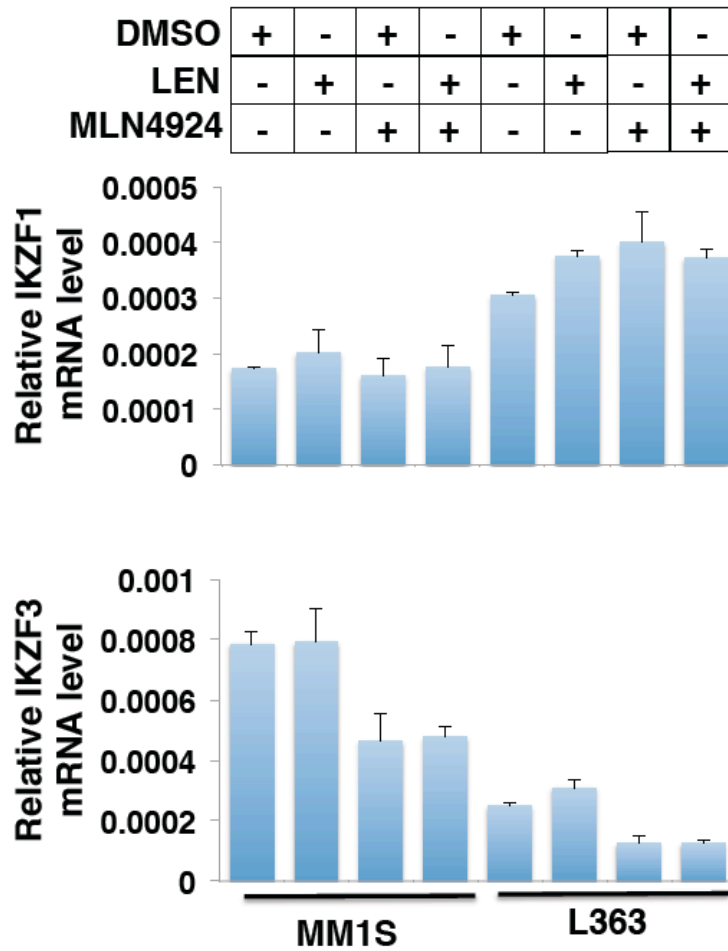


Fig. S10. The mRNA Level of IKZF1 and IKZF3 Is Not Significantly Affected by Lenalidomide. Real-time qPCR analysis of MM1S and L363 cells treated with LEN (2 μ M) and MLN4924 (1 μ M) as indicated for 12 hours. Data are mean \pm SD, n=3.

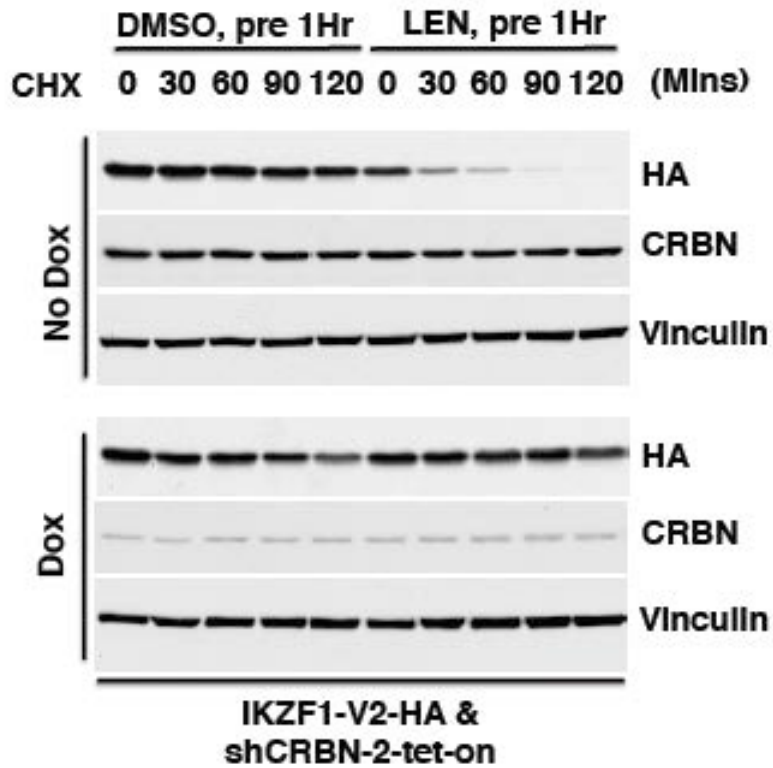


Fig. S11. Lenalidomide-induced Degradation of IKZF1 Depends on Cereblon. Immunoblot analysis of 293FT cells stably expressing IKZF1-V2-HA and doxycycline-inducible CRBN shRNA-2. Where indicated cells were pretreated with LEN (2 μ M) or DMSO for 1 hour before the addition of cycloheximide (CHX) for the indicated periods. Doxycycline (Dox) (1 μ g/mL) were added for 48 hours.

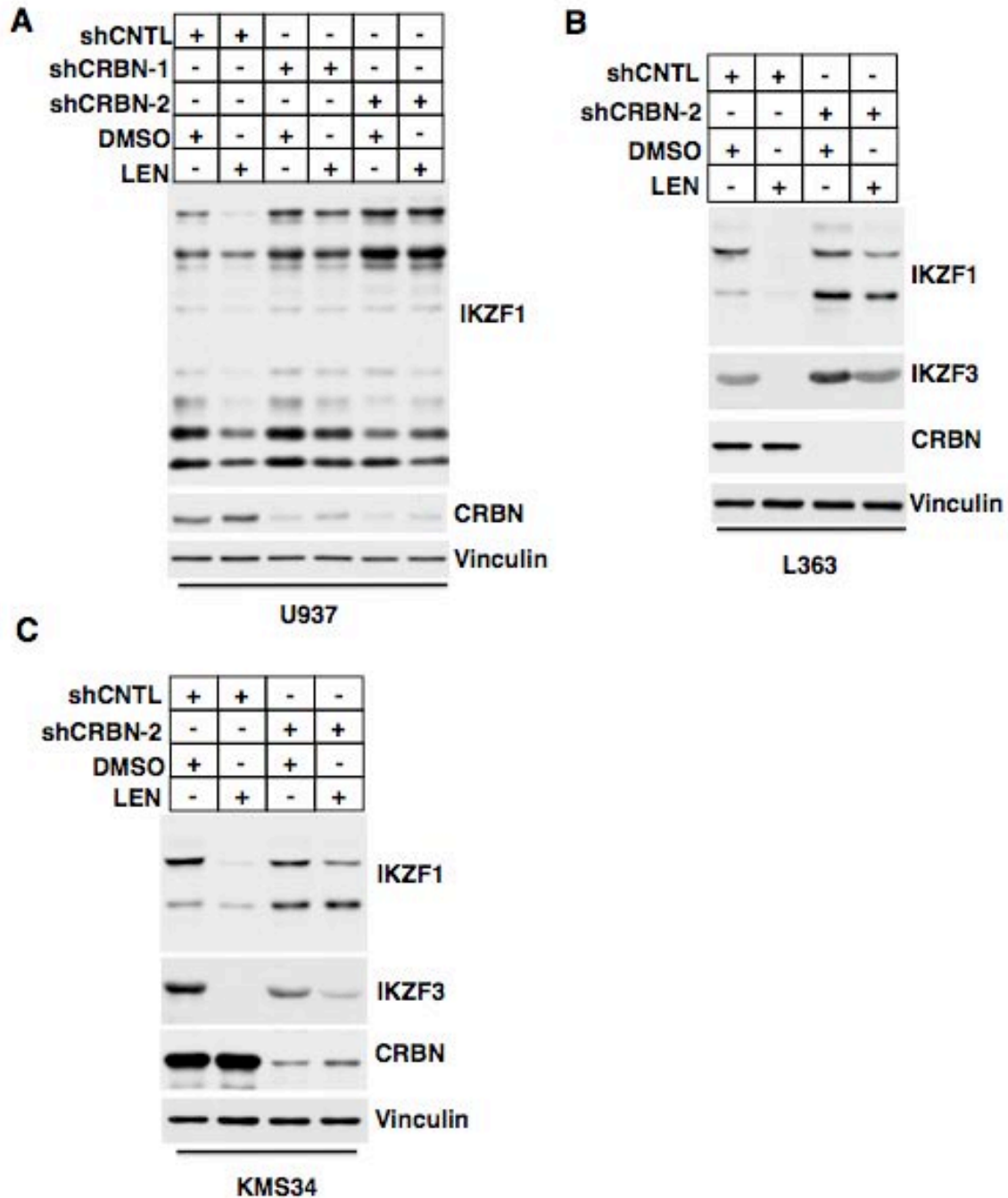


Fig. S12. Downregulation of IKZF1 and IKZF3 by Lenalidomide Requires Cereblon. Immunoblot analysis of U937 (A), L363 (B), and KMS34 (C) cells transiently infected with lentiviruses expressing indicated shRNAs against CRBN or control (CNTL) shRNA and treated, where indicated, with DMSO or LEN (2 μ M) for 12 hours.

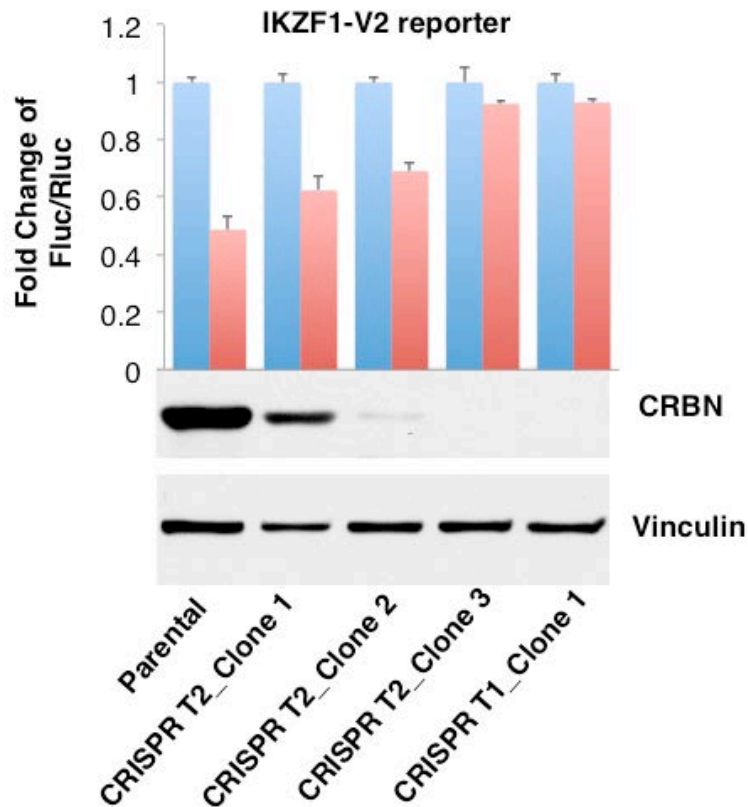


Fig. S13. Analysis of Cereblon-Defective Clones Generated by CRISPR. Firefly luciferase (Fluc)/renilla luciferase (Rluc) ratios (top panel) and immunoblots (bottom panels) of parental 293FT and subclones generated by CRISPR-based targeting of CRBN that were then transfected to produce IKZF1 fused to firefly luciferase (top panel) or hemagglutinin (HA) epitope tag (bottom panels). Where indicated cells were treated with lenalidomide (2 μ M) (red bars). Fluc/Rluc ratios were normalized to corresponding DMSO treated cells. Note that CRISPR T2_Clone 1 and CRISPR T2_Clone 2 express residual cereblon. Data are mean \pm SD, n=4.

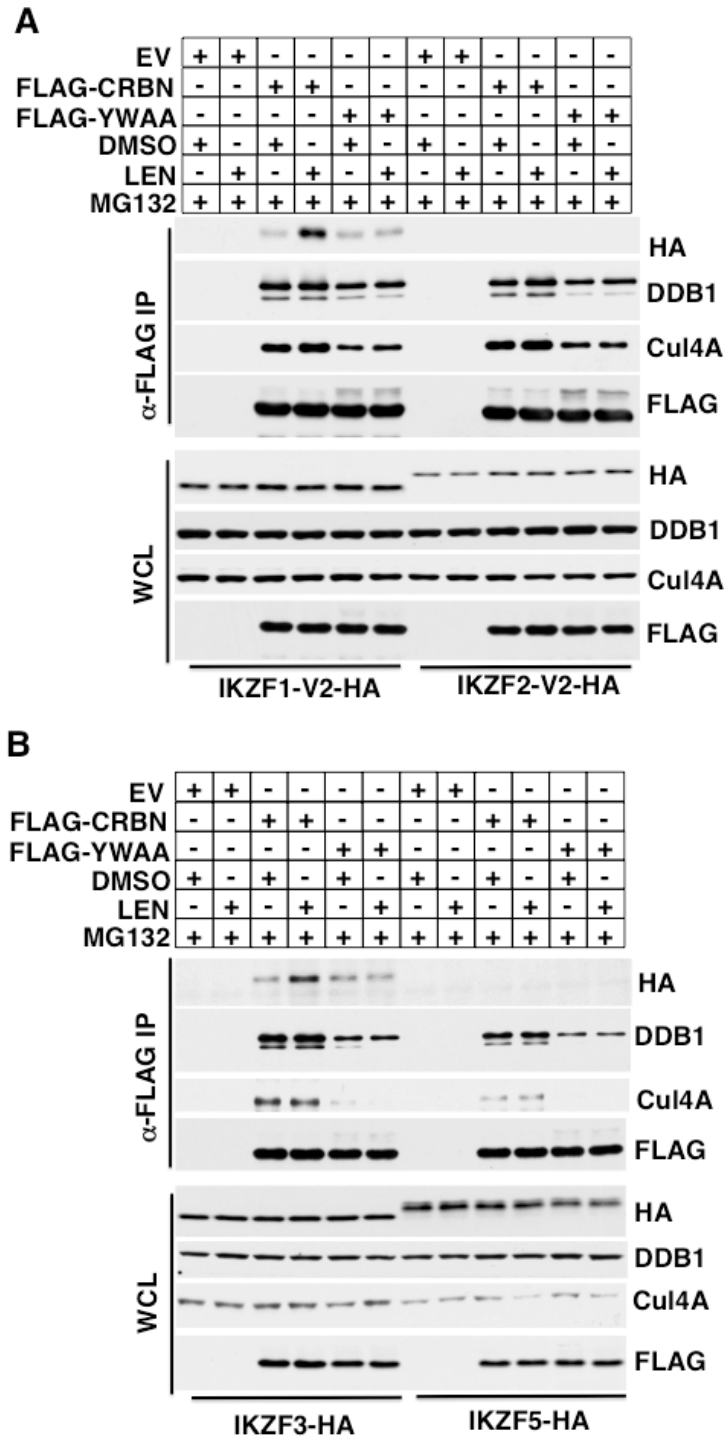


Fig. S14. Enhanced binding of IKZF1 and IKZF3, but not IKZF2 and IKZF5, to Cereblon in the Presence of Lenalidomide. (A and B) Immunoblot analysis of anti-FLAG immunoprecipitates from 293 FT cells stably expressing HA-tagged IKZF that were transiently transfected to produce FLAG-tagged wild type cereblon or YWAA mutant. The cells were treated with MG132 (10 μ M) and, where indicated, with LEN (2 μ M). WCL = whole cell lysate. EV, empty vector.

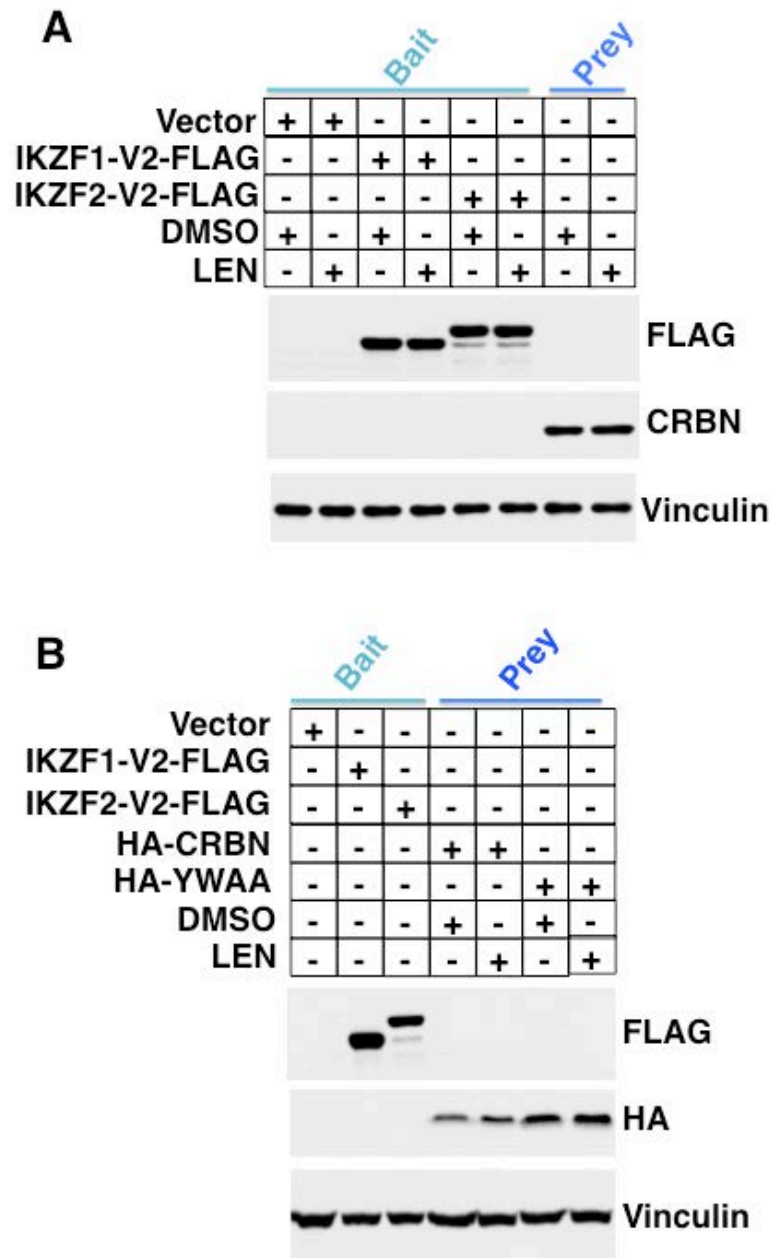


Fig. S15. Input Protein Levels for Binding Studies Corresponding to Fig. 4A and 4B. (A) Total Input for Figure 4A. Immunoblot analysis of 293FT parental cells (Prey) and 293FT CRISPR T1_Clone 1 (*CRBN*^{-/-} T11) cells transfected to produce the indicated FLAG-tagged IKZF (Bait). (B) Total Input for Figure 4B. Immunoblot analysis of 293FT *CRBN*^{-/-} T11 cells transfected to produce the indicated FLAG- and HA-tagged proteins. Where indicated cells were treated with LEN (2 μ M) for 12 hours prior to cell lysis.

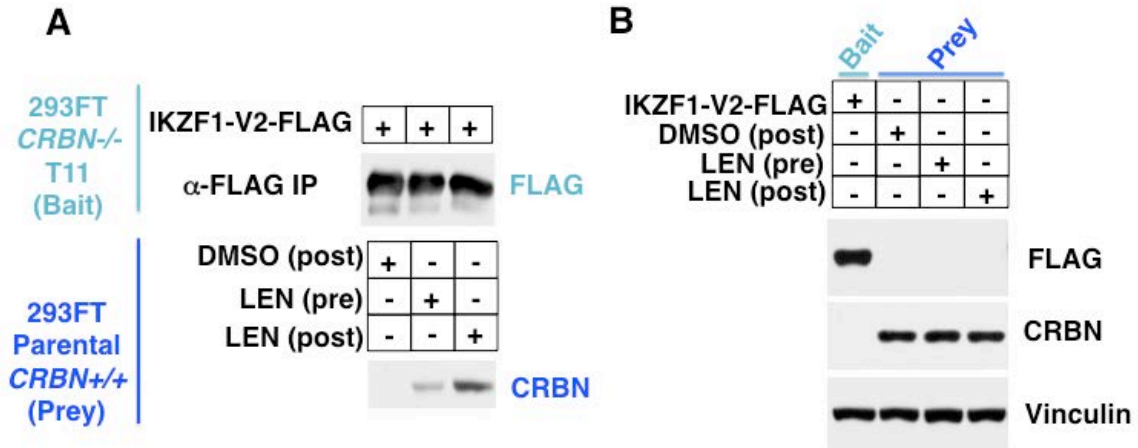


Fig. S16. Lenalidomide Promotes the Binding of IKZF1 to Cereblon In Vitro. (A) FLAG-IKZF1 recombinant protein stably produced in *CRBN*^{-/-} T11 293FT cells was captured onto anti-FLAG agarose beads and used as bait to capture endogenous cereblon (Prey) from *CRBN*^{+/+} 293FT parental cells that were treated with LEN (2 μM) or DMSO for 12 hours before (pre) or after (post) cell lysis. Bound proteins were detected by immunoblot analysis. (B) Input protein for panel A.

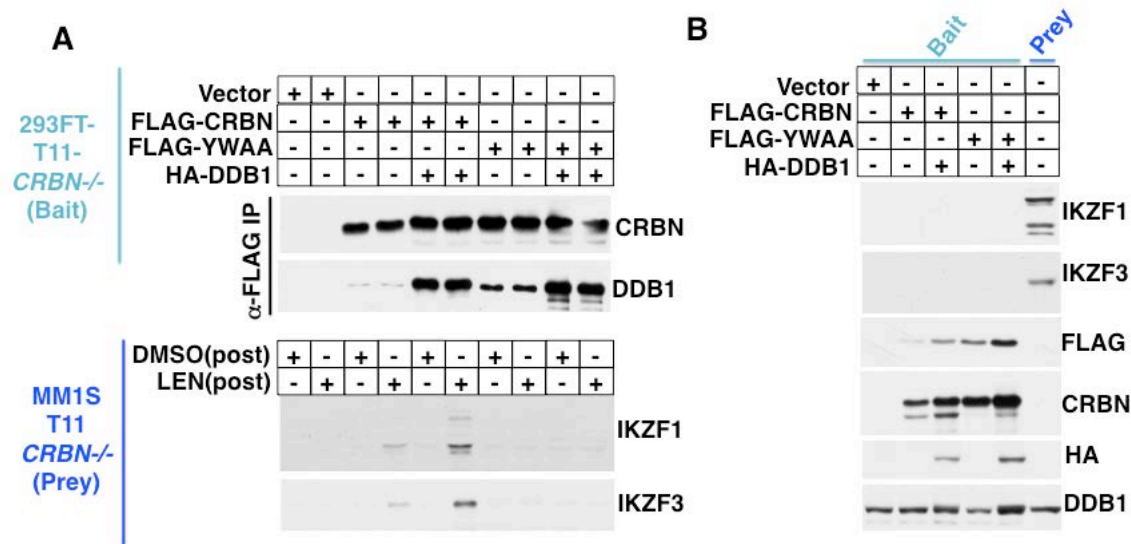


Fig. S17. Lenalidomide Promotes the Binding of IKZF1 and IKZF3 to Cereblon In Vitro. (A) FLAG- CRBN, FLAG-YWAA and HA-DDB1 produced in 293FT *CRBN*^{-/-} T11 cells by transient transfection were captured onto anti-FLAG agarose and used as bait to capture endogenous IKZF1 and IKZF3 from MM1S *CRBN*^{-/-} T11 whole cell extracts (Prey) that were treated with LEN (10 μM) or DMSO after (post) cell lysis. Bound proteins were detected by immunoblot analysis. (B) Input protein for panel A.

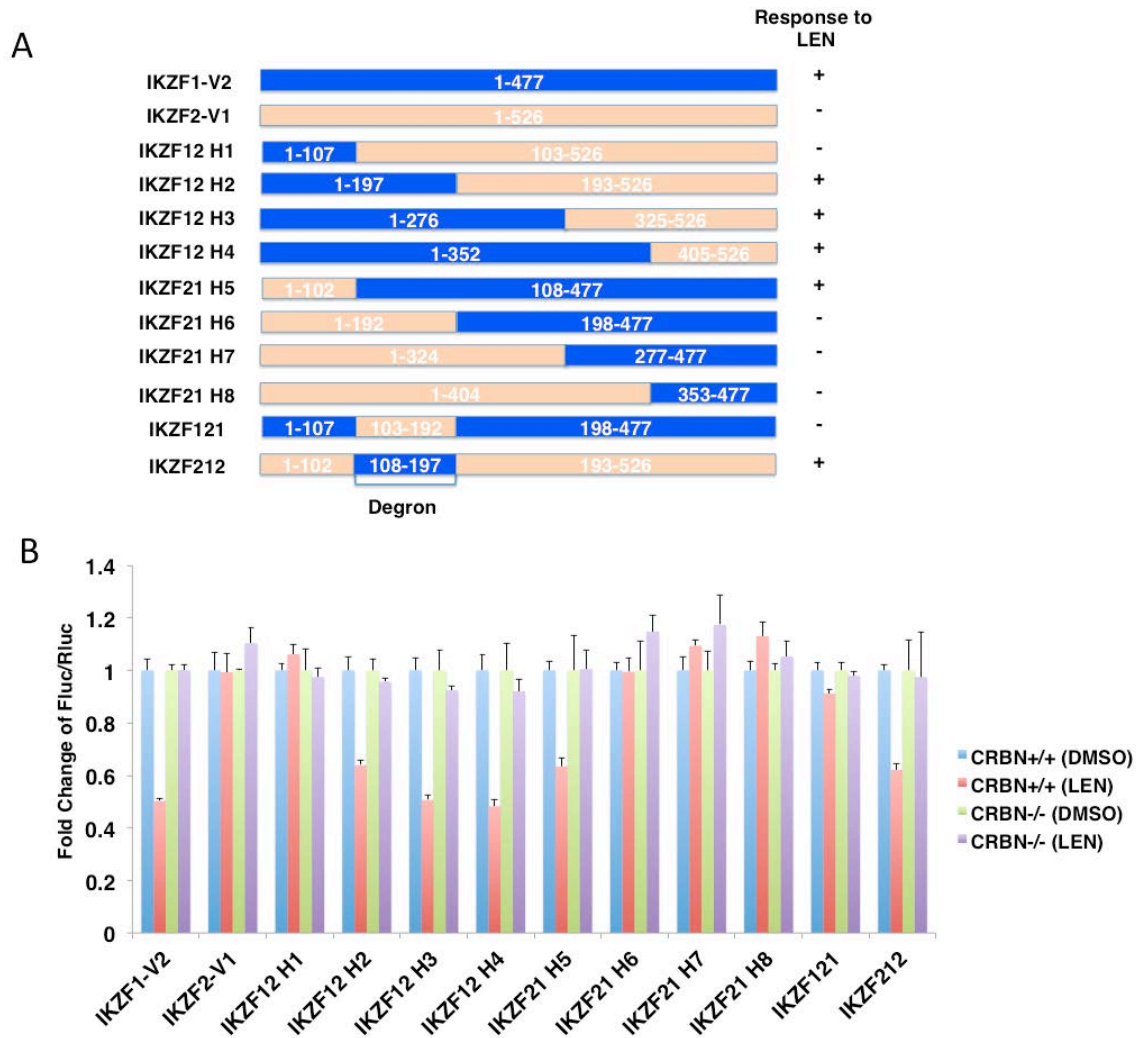


Fig. S18. Cereblon-Dependent Regulation of IKZF1/IKZF2 Chimeras by Lenalidomide. (A) Schematics of IKZF1/IKZF2 Chimeras. The IKZF1 degron (a.a. 108-197) recognized by cereblon is highlighted. (B) Firefly luciferase (Fluc)/Renilla luciferase (Rluc) ratios of *CRBN*^{+/+} parental and *CRBN*^{-/-} T11 293FT cells transfected to produce the indicated IKZF1/2 chimeras fused to firefly luciferase. Where indicated cells were treated with LEN (2 μ M) for 12 hours. Fluc/Rluc ratios were normalized to corresponding DMSO treated cells. Data are mean \pm SD, n=4.

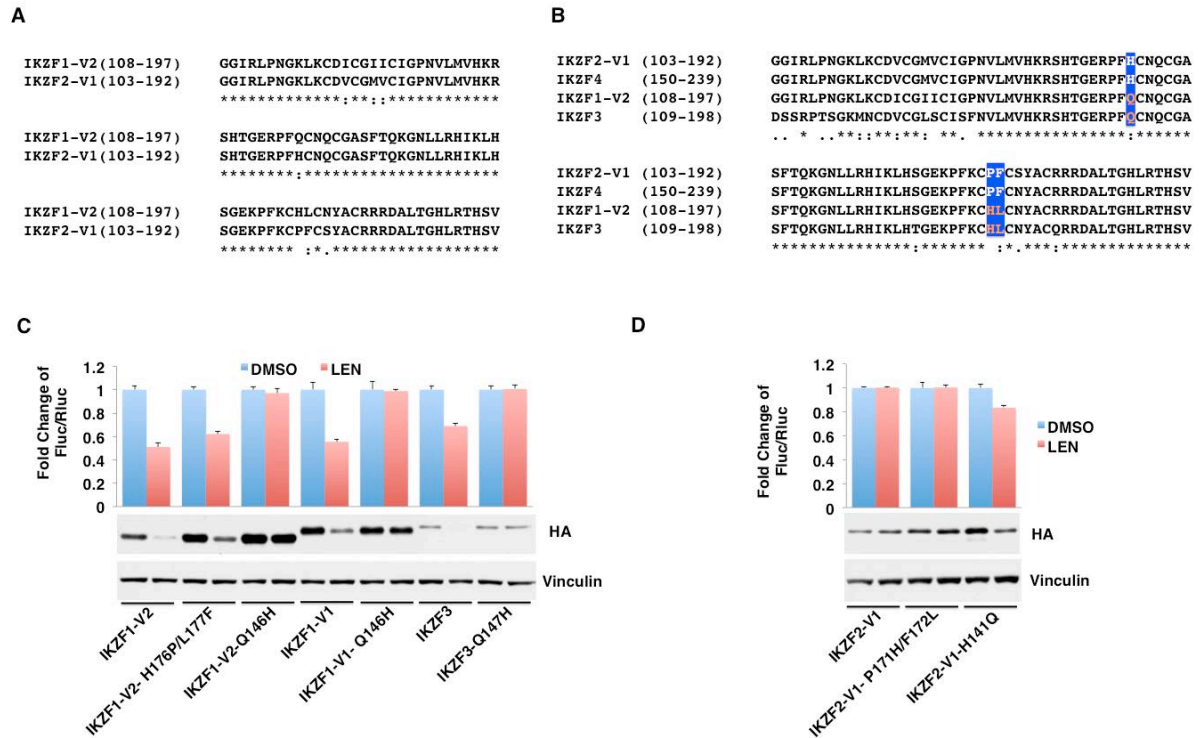


Fig. S19. Cereblon-Dependent Regulation of IKZF1 and IKZF2 Substitution Mutants by Lenalidomide. (A and B) Sequence alignments of IKZF1 degron recognized by cereblon with corresponding region of IKZF2 (A) and IKZF2, IKZF3, and IKZF4 (B). The amino acid residues that are identical in IKZF1 and IKZF3, but not in IKZF2 and IKZF4, are highlighted. (C and D) Firefly luciferase (Fluc)/Renilla luciferase (Rluc) ratios of *CRBN*^{+/+} parental and *CRBN*^{-/-} T11 293 FT cells transfected to produce the indicated IKZF variants fused to firefly luciferase (top panel) or HA epitope tag (bottom panels). Where indicated cells were treated with LEN (2 μ M) for 12 hours. Fluc/Rluc ratios were normalized to corresponding DMSO treated cells. Data are mean \pm SD, n=4.

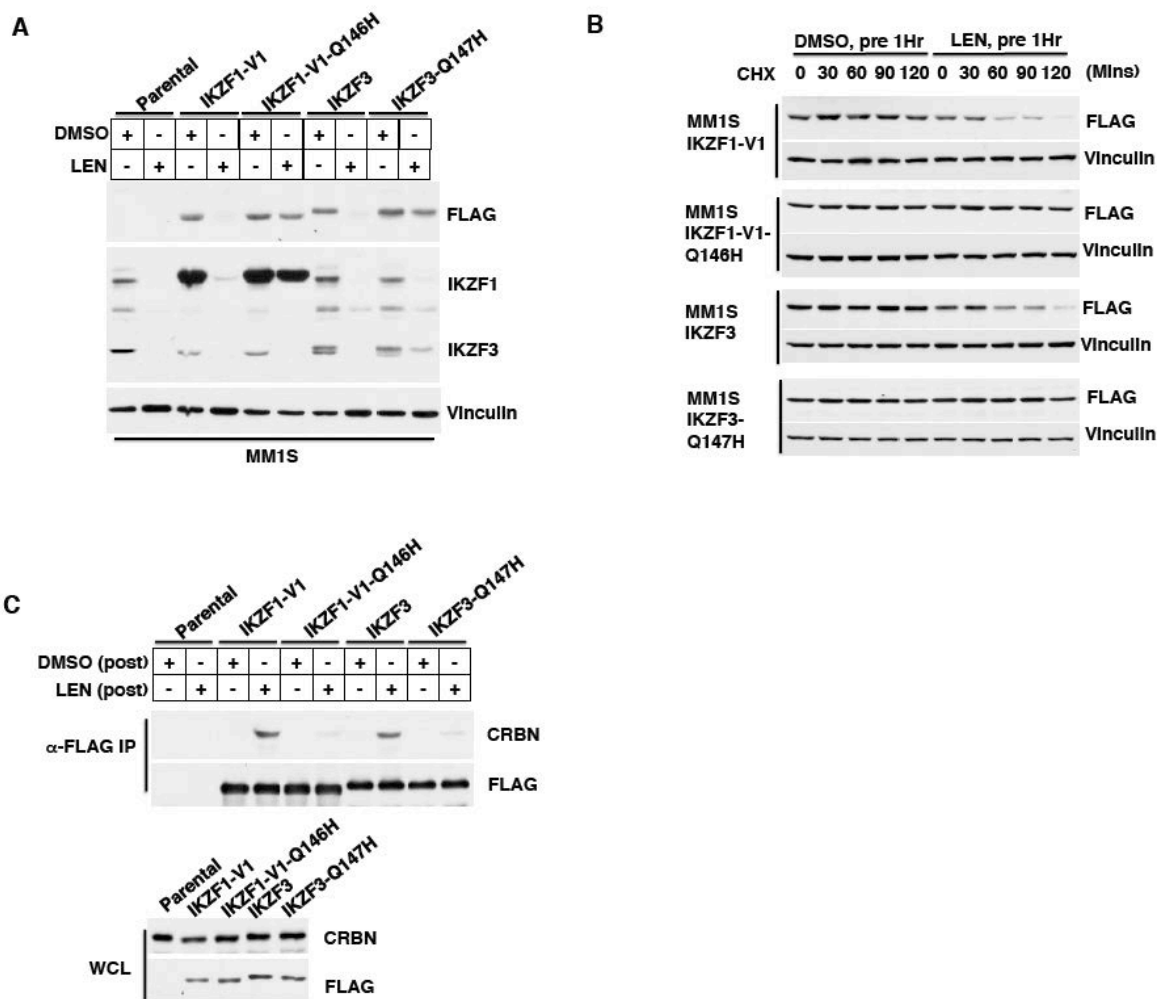


Fig. S20. Substitution of Glutamine Residue in IKZF1 and IKZF3 with the Corresponding Histidine Residue in IKZF2 Prevents Lenalidomide Induced Degradation by Cereblon. (A and B) Immunoblot analysis of MM1S parental cells and MM1S stable cell lines expressing the indicated IKZF proteins. In panel A, cells were treated with DMSO or LEN (2 μ M) for 24 hours before cell lysis. In panel B, cells were pretreated with DMSO or LEN (2 μ M) for 1 hour prior to the addition of cycloheximide (CHX) (100 μ g/mL) for the indicated periods. (C) Immunoblot analysis of anti-FLAG immunoprecipitates (top panels) or whole cell lysates (bottom panels) of MM1S parental cells or MM1S stable cell lines stably expressing the indicated IKZF. DMSO or LEN (10 μ M) was added into the binding assays during immunoprecipitation.

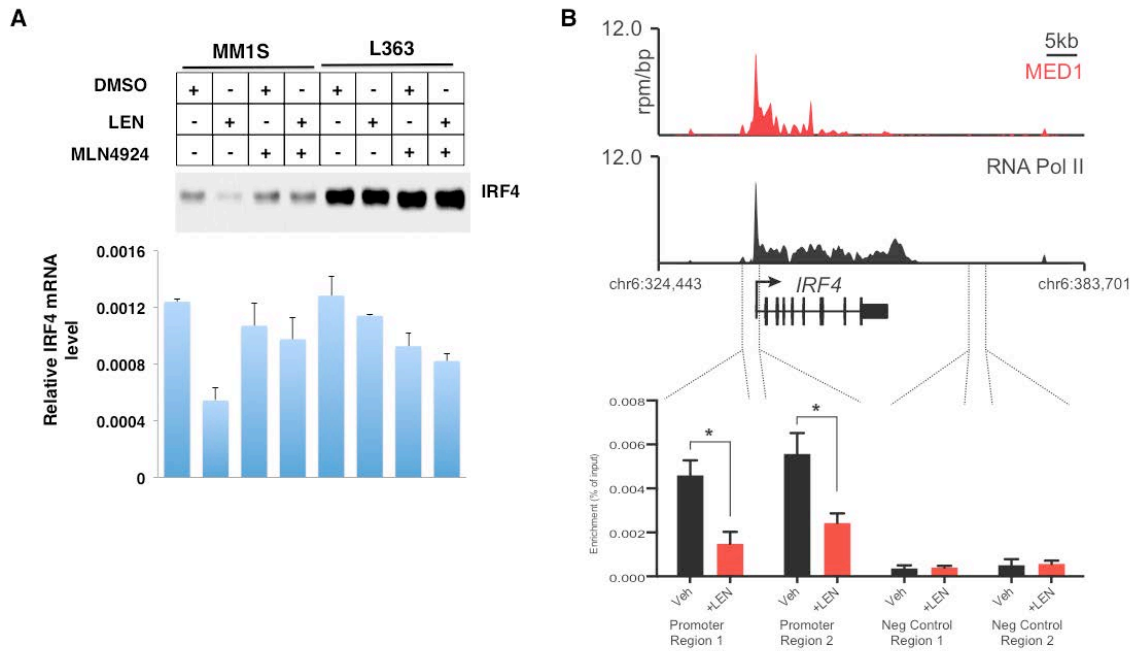


Fig. S21. Regulation of IRF4 by IKZF1. (A) Immunoblot (top) and real-time PCR (bottom) of IRF4 protein and mRNA levels, respectively, in MM1S and L363 myeloma cells treated with LEN (2 μ M) and MLN4924 (1 μ M) as indicated for 12 hours. Data are mean \pm SD, n=3. (B) Chromatin immunoprecipitation (ChIP) with an IKZF1 antibody at 2 sites within the IRF4 promoter region in MM1S cells treated with LEN (2 μ M) for 24 hours. Enrichment is shown as the percentage of total input DNA. Negative control region primers amplify downstream of the IRF4 coding region. Data are mean \pm SEM, n=3. * indicates $p < 0.05$ with unpaired t-test. For reference, published MM1S ChIP-seq data for MED1 and RNA Pol II showing enrichment at the IRF4 locus are shown (34).

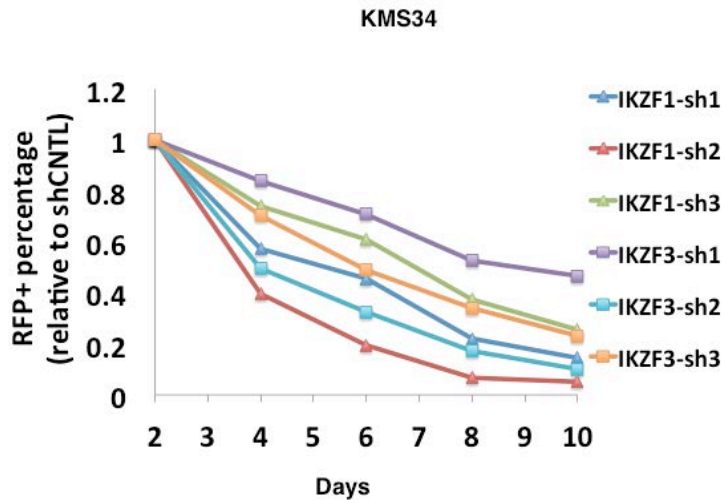


Fig. S22. Anti-myeloma activity of Lenalidomide Linked to loss of IKZF1 and IKZF3. Change in % RFP positivity over time in KMS34 cells infected with viruses encoding RFP and the indicated shRNAs. The day 2 % RFP for each virus was normalized to 1 and subsequent values were expressed relative to cells infected with a virus encoding RFP and a control (CNTL) shRNA.

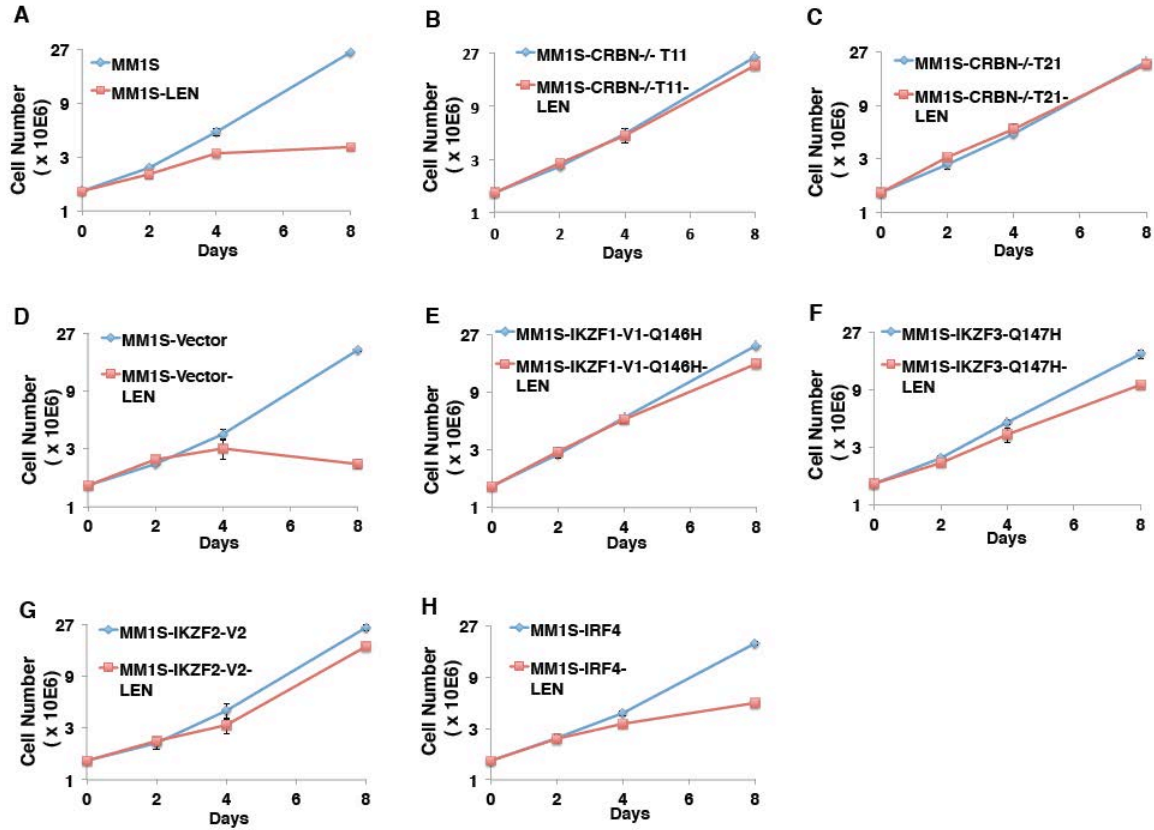


Fig. S23. Stabilization of IKZF1 or IKZF3 Prevents the Anti-proliferative Effect of Lenalidomide in MM1S Cells. (A-H) Cell proliferation curves of parental (A), *CRBN*^{-/-}-T11 (B), and *CRBN*^{-/-}-T21 (C), MM1S myeloma cells, as well as MM1S cell lines stably infected with plenti-CAG-IRES-GFP vectors encoding IKZF1-V1-Q146H (E), IKZF3-Q147H (F), IKZF2-V2 (G), IRF4 (H) or empty vector (D). Cells were cultured in the absence or presence of LEN (2 μ M) for 8 days. Data are mean \pm SEM, n=3.

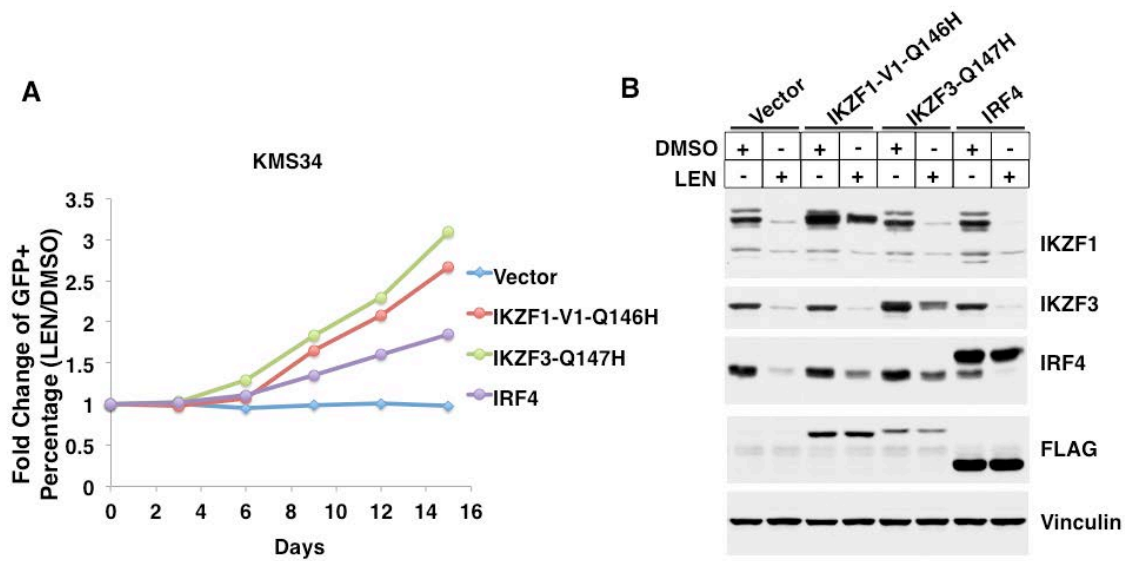


Fig. S24. Stabilization of IKZF1 or IKZF3 Prevent the Anti-proliferative Effect of Lenalidomide in KMS34 Cells. (A) KMS34 cells were infected with plenti-CAG-IRES-GFP vectors encoding indicated FLAG tagged proteins or empty vector control. Shown for each protein is the % GFP positivity for cells treated with LEN (10 μ M) for the indicated duration compared to DMSO. (B) Immunoblot analysis of KMS34 cells infected as in (A) and treated with DMSO or LEN (10 μ M) for 36 hours.

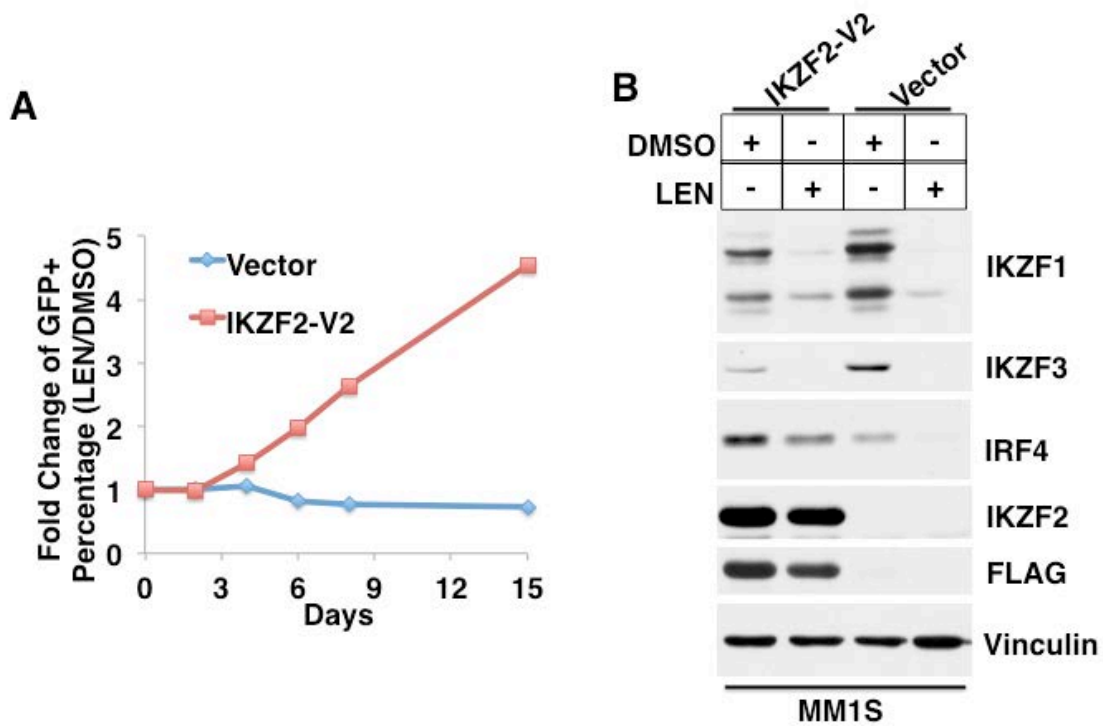


Fig. S25. Ectopic Over-expression of IKZF2 Antagonizes the Lenalidomide Induced Cell Growth Defect in MM1S Cells. (A) MM1S cells were infected with plenti-CAG-IRES-GFP encoding FLAG-tagged IKZF2-V2, or empty vector control. Shown is the % GFP positivity for each cell line treated with LEN (2 μ M) for the indicated duration compared to DMSO. (B) Immunoblot analysis of MM1S cells infected as in (A) and treated with DMSO or LEN (2 μ M) for 24 hours.

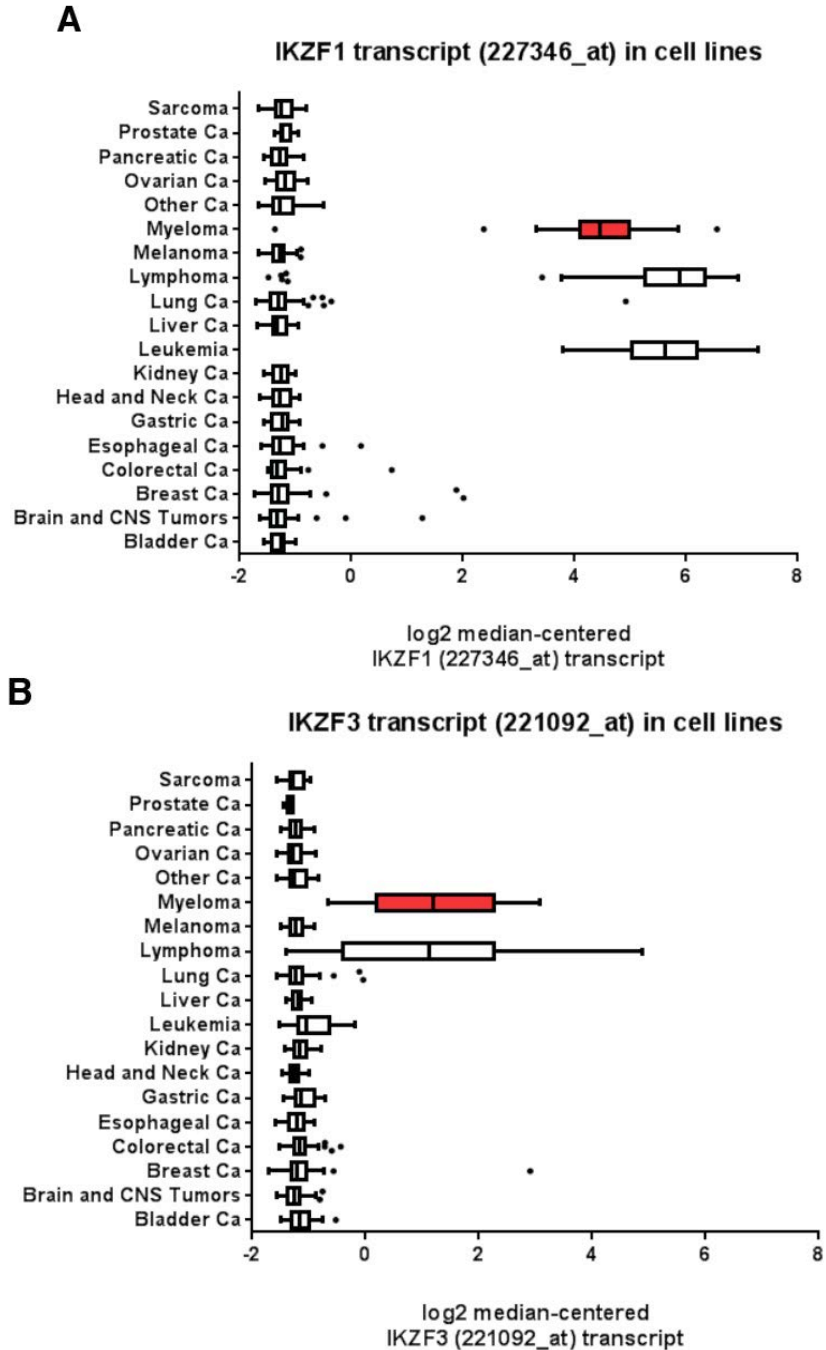


Fig. S26. IKZF1 and IKZF3 are Expressed At Higher Level in Hematopoietic Malignancy Compared To Other Cancer Cell types. (A and B) Relative abundance of IKZF1 mRNA (A) and IKZF3 mRNA (B) in the indicated cancer cell types quantified using Affymetrix IKZF1 probe set 227346_at and IKZF3 probe set 220192_at (Reanalysis, using Oncomine (oncomine.com), of data from Gene Expression Omnibus (GEO, <http://www.ncbi.nlm.nih.gov/geo/>) dataset GSE36133).

Table S1. Ranked fold change of Fluc/Rluc of all ORFs tested. Standard deviation is calculated as shown at the bottom of this table. ORFs whose FLuc/Rluc ratios were induced or reduced more than 3 standard deviation by LEN are labeled by red and yellow, respectively.

Plate	Position	Internal_ID	GENE_ID	Symbol	Fold Change of Fluc/Rluc (LEN/DMSO) [log]	Fold Change of Fluc/Rluc (LEN/DMSO) [Linear]
11080	B08	2561	8204	NRIP1	-0.3428	0.4541
31004	G10	11261	339512	C1orf110	-0.3326	0.4650
11082	B07	9258	389458	LOC389458	-0.3217	0.4767
11029	G09	10014	221416	C6orf223	-0.3141	0.4852
11082	H06	2406	NA	NA	-0.3110	0.4886
11038	B09	6052	1736	DKC1	-0.3017	0.4992
51034	H06	54345	55554	KLK15	-0.2982	0.5033
31022	H03	13406	91272	BOD1	-0.2896	0.5134
11084	G04	8079	122970	ACOT4	-0.2891	0.5139
11020	E05	8002	79031	PDCL3	-0.2874	0.5159
11064	G07	2289	144577	C12orf66	-0.2869	0.5165
11038	H02	2463	9139	CBFA2T2	-0.2820	0.5224
11024	F03	4637	629	CFB	-0.2729	0.5334
11024	E08	8220	27042	C1orf107	-0.2719	0.5347
31024	C04	13407	7266	DNAJC7	-0.2683	0.5391
31009	C10	11731	55178	RNMTL1	-0.2665	0.5413
31030	F12	14246	4641	MYO1C	-0.2644	0.5440
31011	A09	11911	286016	TPI1P2	-0.2613	0.5479
11038	G02	5400	54973	CPSF3L	-0.2607	0.5486
11058	A12	3916	6944	VPS72	-0.2457	0.5679
51013	A07	13943	9247	GCM2	-0.2449	0.5689
11072	G10	2659	9779	TBC1D5	-0.2441	0.5700
11024	B05	4311	960	CD44	-0.2431	0.5714
11082	C07	5600	1208	CLPS	-0.2413	0.5737
11065	A06	1209	55808	ST6GALNAC1	-0.2381	0.5780
11048	A06	6442	374	AREG	-0.2373	0.5790
11084	C07	6790	80233	C17orf70	-0.2320	0.5862
11042	G02	8249	219833	C11orf45	-0.2315	0.5868
11024	E07	3321	1374	CPT1A	-0.2300	0.5888
11042	E08	7003	360132	FKBP9L	-0.2285	0.5909
11040	H06	6318	8367	HIST1H4E	-0.2281	0.5914
11038	C06	5336	25793	FBXO7	-0.2211	0.6010
31002	F06	10315	6557	SLC12A1	-0.2210	0.6012
11067	D12	10016	22806	IKZF3	-0.2207	0.6015
11038	E08	5255	5327	PLAT	-0.2201	0.6024
11029	F05	10136	1588	CYP19A1	-0.2178	0.6056
11038	B01	3212	224	ALDH3A2	-0.2175	0.6060

31005	G08	10894	160140	C11orf65	-0.2161	0.6081
11012	E12	5390	57003	CCDC47	-0.2159	0.6083
11083	B04	2738	9804	TOMM20	-0.2140	0.6109
31004	A10	11031	6133	RPL9	-0.2127	0.6127
11037	H03	4971	9397	NMT2	-0.2118	0.6141
11083	A08	9795	25788	RAD54B	-0.2116	0.6144
11080	A06	6222	10743	RAI1	-0.2114	0.6147
11041	H08	4150	51330	TNFRSF12A	-0.2104	0.6161
31007	H04	11248	10640	EXOC5	-0.2101	0.6164
51013	D12	53449	60506	NYX	-0.2078	0.6197
11021	D02	4065	23552	CDK20	-0.2078	0.6197
11083	C04	8755	53346	TM6SF1	-0.2075	0.6202
11040	B08	8903	5098	PCDHGC3	-0.2069	0.6210
11025	G06	4787	9883	POM121	-0.2067	0.6213
11042	E02	5612	10438	C1D	-0.2061	0.6221
11039	D01	2100	5475	PPEF1	-0.2045	0.6244
11021	E11	5712	7170	TPM3	-0.2040	0.6251
31002	G03	10293	7850	IL1R2	-0.2035	0.6258
31021	D07	13200	9390	SLC22A13	-0.2029	0.6268
11038	G11	6265	10802	SEC24A	-0.2024	0.6275
51017	C11	55993	221262	CCDC162	-0.2021	0.6279
31004	G05	11013	11107	PRDM5	-0.2020	0.6281
31018	B07	13040	91408	BTF3L4	-0.2017	0.6284
31030	G02	14311	4481	MSR1	-0.2013	0.6290
11025	F05	1994	9510	ADAMTS1	-0.2011	0.6293
51018	C05	56099	5686	PSMA5	-0.2004	0.6304
11045	B06	9280	8764	TNFRSF14	-0.2002	0.6307
31009	C12	11572	1855	DVL1	-0.2002	0.6307
31009	D05	11499	84315	MON1A	-0.2000	0.6309
11070	H04	9529	23373	CRTC1	-0.1998	0.6313
31013	B08	12106	6953	TCP10	-0.1997	0.6313
11030	G09	8004	3125	HLA-DRB3	-0.1996	0.6316
11042	G08	6821	6217	RPS16	-0.1979	0.6340
11048	D06	4069	10935	PRDX3	-0.1976	0.6345
11038	E04	5881	9252	RPS6KA5	-0.1972	0.6350
11037	H08	8593	10768	AHCYL1	-0.1964	0.6362
11029	H11	7747	60488	MRPS35	-0.1963	0.6363
11025	D09	8208	5925	RB1	-0.1960	0.6368
31036	D04	11311	10724	MGEA5	-0.1960	0.6369
11009	H09	3000	55795	PCID2	-0.1938	0.6401
11079	C11	1767	10208	USPL1	-0.1936	0.6403
31033	D07	14925	57150	C6orf162	-0.1931	0.6410
11028	B08	8631	84548	TMEM185A	-0.1929	0.6413
11065	D09	2940	10320	IKZF1	-0.1928	0.6415

11029	B09	4626	55122	AKIRIN2	-0.1927	0.6416
11042	H03	4375	2922	GRP	-0.1924	0.6420
31001	A11	10294	10462	CLEC10A	-0.1923	0.6423
11061	E07	9979	10390	CEPT1	-0.1921	0.6426
31006	B03	11106	160419	C12orf50	-0.1918	0.6431
11029	D11	3086	9570	GOSR2	-0.1912	0.6438
11083	D09	628	54509	RHOF	-0.1901	0.6455
51016	C10	56588	60467	BPESC1	-0.1895	0.6464
11042	G04	5572	7336	UBE2V2	-0.1894	0.6465
11080	H07	1543	118987	PDZD8	-0.1890	0.6472
31038	A03	14810	NA	NA	-0.1884	0.6481
11070	F06	9903	84889	SLC7A3	-0.1884	0.6481
31016	H07	12436	286046	XKR6	-0.1883	0.6481
11042	G10	8999	7276	TTR	-0.1880	0.6486
31005	G09	11224	53829	P2RY13	-0.1866	0.6508
11061	G05	5639	84924	ZNF566	-0.1864	0.6510
51013	F01	53848	7365	UGT2B10	-0.1856	0.6522
31025	D06	13429	63922	CHTF18	-0.1853	0.6527
51020	F02	55842	9127	P2RX6	-0.1851	0.6530
11026	H03	1903	26070	DKFZP434K028	-0.1841	0.6545
51025	B07	56861	9839	ZEB2	-0.1836	0.6553
11041	D12	5780	9550	ATP6V1G1	-0.1833	0.6557
51010	B06	54455	580	BARD1	-0.1833	0.6557
51015	H06	52670	79923	NANOG	-0.1827	0.6567
11038	H11	7345	2801	GOLGA2	-0.1820	0.6577
11066	D07	9520	151295	SLC23A3	-0.1819	0.6577
11081	H06	2451	10230	NBR2	-0.1817	0.6581
31010	H07	11775	79066	METT10D	-0.1817	0.6582
11059	E03	1350	125972	CALR3	-0.1815	0.6584
51009	B02	53072	7093	TLL2	-0.1810	0.6592
31020	G05	13120	80008	TMEM156	-0.1807	0.6597
11032	E03	2198	54943	DNAJC28	-0.1807	0.6597
11042	H09	5697	805	CALM2	-0.1805	0.6599
31008	H08	11422	53615	MBD3	-0.1800	0.6607
31032	B06	14479	57718	PPP4R4	-0.1795	0.6614
51018	E07	56557	3117	HLA-DQA1	-0.1794	0.6617
11059	A07	4968	3352	HTR1D	-0.1792	0.6618
11062	E10	9880	152006	RNF38	-0.1780	0.6637
51018	H09	56004	3123	HLA-DRB1	-0.1770	0.6652
31022	A12	13540	147007	TMEM199	-0.1770	0.6653
51029	A01	55508	6566	SLC16A1	-0.1769	0.6654
11079	G03	1507	5168	ENPP2	-0.1769	0.6654
51025	A10	55351	7159	TP53BP2	-0.1769	0.6655
11072	A02	7729	28231	SLCO4A1	-0.1768	0.6656

31004	B08	11017	54458	PRR13	-0.1763	0.6663
31009	D02	11325	9406	ZRANB2	-0.1762	0.6665
51025	A09	53366	5140	PDE3B	-0.1756	0.6674
11038	A11	3697	4771	NF2	-0.1753	0.6679
11030	H09	3576	78989	COLEC11	-0.1741	0.6697
51020	B05	56577	219899	TBCEL	-0.1734	0.6708
31007	E03	10882	256051	ZNF549	-0.1732	0.6711
11041	E09	8663	124602	KIF19	-0.1727	0.6718
51012	F09	54259	283847	CCDC79	-0.1725	0.6722
11038	H09	7047	2110	ETFDH	-0.1721	0.6728
31022	B05	13362	11019	LIAS	-0.1715	0.6738
31028	G09	15063	414060	TBC1D3C	-0.1710	0.6745
31037	B08	14116	4651	MYO10	-0.1710	0.6745
31001	A08	10710	2823	GPM6A	-0.1698	0.6763
51009	G11	53472	57181	SLC39A10	-0.1698	0.6764
11042	H04	395	801	CALM1	-0.1687	0.6781
11079	G04	6789	23258	DENND5A	-0.1686	0.6783
11054	A07	10021	5359	PLSCR1	-0.1686	0.6783
11080	E12	2004	1277	COL1A1	-0.1682	0.6789
11082	D01	9142	8034	SLC25A16	-0.1674	0.6802
11026	G05	635	81606	LBH	-0.1672	0.6804
31045	H09	3870	114884	OSBPL10	-0.1664	0.6817
11041	A11	8934	80832	APOL4	-0.1663	0.6819
51017	G01	55931	60675	PROK2	-0.1661	0.6822
11025	G07	1383	91147	TMEM67	-0.1658	0.6827
11070	E09	9796	163081	ZNF567	-0.1657	0.6828
11038	G06	1894	150350	ENTHD1	-0.1655	0.6831
31015	A11	12706	51390	AIG1	-0.1652	0.6836
11063	D06	5686	3646	EIF3E	-0.1649	0.6840
31003	H01	10682	342926	ZNF677	-0.1648	0.6843
51034	A07	54156	348825	TPRXL	-0.1648	0.6843
11029	D05	3245	1364	CLDN4	-0.1647	0.6844
51029	E12	56936	494513	DFNB59	-0.1647	0.6844
11083	G05	1672	9377	COX5A	-0.1647	0.6844
11072	E10	1370	63926	ANKRD5	-0.1645	0.6847
11039	C06	7791	9855	FARP2	-0.1643	0.6850
11043	B07	8538	221060	C10orf111	-0.1642	0.6851
11027	A06	930	51527	C14orf129	-0.1641	0.6853
11083	G10	8401	2815	GP9	-0.1638	0.6858
11037	F06	6483	7384	UQCRC1	-0.1632	0.6868
11039	H10	8066	715	C1R	-0.1631	0.6868
11029	H09	4686	26022	TMEM98	-0.1631	0.6869
51022	G05	55873	4552	MTRR	-0.1629	0.6872
31033	B06	14839	284802	FRG1B	-0.1629	0.6872

11021	G01	3874	11316	COPE	-0.1627	0.6876
51009	D01	53119	57167	SALL4	-0.1625	0.6879
11058	F11	9766	92822	ZNF276	-0.1620	0.6887
11020	D03	7740	NA	NA	-0.1616	0.6894
31011	B05	12117	5586	PKN2	-0.1615	0.6895
51011	D06	53706	79072	FASTKD3	-0.1610	0.6902
11058	C12	1845	6455	SH3GL1	-0.1604	0.6912
31025	H04	13529	84632	AFAPIL2	-0.1601	0.6916
11005	A02	2664	57186	RALGAPA2	-0.1601	0.6917
31042	D05	6797	204	AK2	-0.1601	0.6917
11040	D10	8713	132141	IQCF1	-0.1600	0.6919
11041	B04	4977	1337	COX6A1	-0.1599	0.6919
11028	C04	2497	146395	GSG1L	-0.1596	0.6925
31014	E10	12381	54676	GTPBP2	-0.1593	0.6930
11038	F05	5907	27161	EIF2C2	-0.1592	0.6932
11042	A04	5127	79760	GEMIN7	-0.1591	0.6932
31030	F09	14308	7552	ZNF711	-0.1589	0.6936
11082	G05	355	23362	PSD3	-0.1589	0.6936
11029	A05	1111	3589	IL11	-0.1586	0.6940
11070	H09	290	55917	CTTNBP2NL	-0.1585	0.6942
11058	E12	6817	10488	CREB3	-0.1585	0.6943
51010	H01	54146	222223	KIAA1324L	-0.1583	0.6945
51026	A10	53374	55521	TRIM36	-0.1582	0.6947
51011	G03	53048	54567	DLL4	-0.1581	0.6949
11020	F02	7325	115908	CTHRC1	-0.1577	0.6955
11005	D07	8390	2999	GZMH	-0.1576	0.6957
11025	H07	4899	8449	DHX16	-0.1571	0.6965
31045	D06	3244	6152	RPL24	-0.1569	0.6968
11039	D10	6167	2022	ENG	-0.1569	0.6969
51010	E12	54577	58504	ARHGAP22	-0.1568	0.6970
31016	B05	12410	54	ACP5	-0.1566	0.6972
31019	E11	13133	60492	CCDC90B	-0.1565	0.6974
11083	A02	9867	89882	TPD52L3	-0.1565	0.6974
11042	H01	5472	6157	RPL27A	-0.1563	0.6977
11027	F01	8057	79698	ZMAT4	-0.1562	0.6979
11051	D07	5120	84985	FAM83A	-0.1562	0.6980
11040	D07	7874	53822	FXYD7	-0.1558	0.6985
11064	A12	7614	84958	SYTL1	-0.1556	0.6989
11083	E02	192	55166	CENPQ	-0.1552	0.6996
51016	E02	53499	4295	MLN	-0.1550	0.6998
11012	A02	8500	5624	PROC	-0.1550	0.6999
11024	E05	4615	51433	ANAPC5	-0.1547	0.7003
11021	B05	5507	1504	CTRB1	-0.1543	0.7010
31016	G05	12698	116092	DNTTIP1	-0.1543	0.7010

11024	B04	3640	11253	MAN1B1	-0.1542	0.7011
11042	E03	4986	85013	TMEM128	-0.1541	0.7013
31007	G11	11583	91582	RPS19BP1	-0.1540	0.7015
11081	D04	6147	NA	NA	-0.1539	0.7017
31014	C05	12293	1998	ELF2	-0.1537	0.7019
11083	A06	8747	4637	MYL6	-0.1537	0.7019
11042	F07	6635	51079	NDUFA13	-0.1534	0.7024
11021	D03	4667	5432	POLR2C	-0.1534	0.7024
31014	C02	12330	23107	MRPS27	-0.1532	0.7027
11038	A07	5229	311	ANXA11	-0.1531	0.7028
31025	A05	13553	4439	MSH5	-0.1530	0.7031
31004	A01	10739	81624	DIAPH3	-0.1528	0.7034
51020	C10	55880	10333	TLR6	-0.1528	0.7034
51012	H04	54185	8224	SYN3	-0.1528	0.7034
51016	F03	56727	118425	GDEP	-0.1525	0.7039
51026	F03	56419	140612	ZFP28	-0.1525	0.7040
31038	E09	5863	51074	APIP	-0.1524	0.7040
31021	B02	13126	79982	DNAJB14	-0.1519	0.7048
51016	D01	53891	158801	NKAPP1	-0.1518	0.7051
51020	E02	56247	162993	ZNF846	-0.1517	0.7052
31037	C04	12685	23132	RAD54L2	-0.1509	0.7065
51020	A09	56365	114026	ZIM3	-0.1503	0.7074
11038	F12	1970	149647	FAM71A	-0.1502	0.7077
11087	C09	1328	26266	SLC13A4	-0.1500	0.7079
11080	D06	8717	57634	EP400	-0.1498	0.7083
31021	D09	13234	91614	DEPDC7	-0.1497	0.7084
11083	F03	185	55916	NXT2	-0.1496	0.7086
31043	F02	7556	219970	GLYATL2	-0.1496	0.7086
51017	H06	55768	6759	SSX4	-0.1490	0.7095
11058	H01	10209	1235	CCR6	-0.1490	0.7096
11040	H05	8223	554313	HIST2H4B	-0.1490	0.7096
11088	A07	7307	160	AP2A1	-0.1489	0.7097
11003	B07	6001	29100	TMEM208	-0.1489	0.7098
51003	C08	53101	11062	DUS4L	-0.1482	0.7109
11040	H10	8248	25758	C11orf41	-0.1478	0.7115
31032	B01	14596	83873	GPR61	-0.1478	0.7115
51009	A02	53121	5651	TMPRSS15	-0.1478	0.7116
51012	H03	54811	161779	PGBD4	-0.1477	0.7117
51017	F09	56704	6048	RNF5	-0.1474	0.7121
11054	D10	4052	6396	SEC13	-0.1473	0.7124
51005	E09	54127	122970	ACOT4	-0.1471	0.7127
11029	H07	2774	373156	GSTK1	-0.1470	0.7128
11058	F12	924	54953	C1orf27	-0.1470	0.7128
11040	H11	4325	57402	S100A14	-0.1467	0.7134

51010	A03	52678	56122	PCDHB14	-0.1467	0.7134
11037	G06	8082	5184	PEPD	-0.1466	0.7135
11050	C09	513	79152	FA2H	-0.1462	0.7142
11042	G11	5743	7321	UBE2D1	-0.1462	0.7142
31002	H06	10533	93979	CPA5	-0.1462	0.7142
51012	G11	54042	246213	SLC17A8	-0.1460	0.7145
11042	D11	1974	256369	C14orf48	-0.1458	0.7149
11056	D01	3173	10421	CD2BP2	-0.1456	0.7151
31029	E02	14394	6217	RPS16	-0.1456	0.7151
11028	A02	2663	10537	UBD	-0.1453	0.7156
11026	H04	20	78996	C7orf49	-0.1451	0.7160
31002	H02	10549	54619	CCNJ	-0.1450	0.7162
31041	D03	6847	89122	TRIM4	-0.1450	0.7162
11088	G05	8422	3549	IHH	-0.1449	0.7162
11070	C09	7777	22955	SCMH1	-0.1445	0.7170
11070	B11	10090	55671	SMEK1	-0.1444	0.7171
11021	F12	3529	11167	FSTL1	-0.1441	0.7176
31018	H01	12915	348235	SKA2	-0.1438	0.7181
51010	H05	52860	10631	POSTN	-0.1438	0.7181
11086	B01	1497	92565	FANK1	-0.1436	0.7184
31016	F11	12579	26164	GTPBP5	-0.1435	0.7186
31012	F06	12057	259232	NALCN	-0.1434	0.7188
11040	C04	5026	84792	C7orf70	-0.1432	0.7191
31007	A08	10875	23231	SEL1L3	-0.1430	0.7194
31024	H07	13561	7681	MKRN3	-0.1427	0.7199
31009	A10	11507	89848	FCHSD1	-0.1426	0.7201
51002	H06	54882	399726	C10orf114	-0.1426	0.7201
31021	F04	12963	85365	ALG2	-0.1425	0.7204
11079	D01	1359	54878	DPP8	-0.1422	0.7208
11029	F11	5018	10775	POP4	-0.1420	0.7211
11024	D10	4818	2305	FOXM1	-0.1420	0.7212
11082	G06	9365	5098	PCDHGC3	-0.1415	0.7220
11042	H10	5671	51187	RSL24D1	-0.1414	0.7222
51002	E10	54406	259236	TMIE	-0.1414	0.7222
11082	B04	9066	51144	HSD17B12	-0.1412	0.7225
31042	H02	6409	4922	NTS	-0.1410	0.7227
31007	B04	11280	23023	TMCC1	-0.1408	0.7232
11037	E01	8017	7922	SLC39A7	-0.1407	0.7233
11088	E03	5165	23741	EID1	-0.1407	0.7233
31006	E10	11262	6916	TBXAS1	-0.1405	0.7236
11078	C04	1288	57626	KLHL1	-0.1405	0.7236
51013	D06	53957	84735	CNDP1	-0.1404	0.7238
11024	D06	3388	79009	DDX50	-0.1404	0.7238
11066	H06	2023	3053	SERPIND1	-0.1403	0.7239

11078	C12	2035	257044	C1orf101	-0.1403	0.7240
31031	H05	14633	81876	RAB1B	-0.1401	0.7243
31004	E11	10980	10431	LOC10431	-0.1400	0.7245
11054	A09	8136	5959	RDH5	-0.1398	0.7247
31024	A03	13327	5669	PSG1	-0.1398	0.7247
31038	G07	9216	64232	MS4A5	-0.1397	0.7249
31011	E05	12306	1351	COX8A	-0.1394	0.7254
31031	F03	14594	3558	IL2	-0.1394	0.7254
31009	G04	11644	29780	PARVB	-0.1393	0.7256
11024	E03	9322	11063	SOX30	-0.1389	0.7263
11024	E09	10100	55250	ELP2	-0.1387	0.7265
31025	D12	14077	63969	C15orf49	-0.1386	0.7268
31009	C09	11751	2553	GABPB1	-0.1384	0.7271
51005	H10	53964	4784	NFIX	-0.1384	0.7271
51009	E09	53057	7100	TLR5	-0.1383	0.7272
11045	B07	8898	25900	IFFO1	-0.1383	0.7273
11082	A09	2054	150290	DUSP18	-0.1382	0.7274
11051	C07	6047	116150	NUS1	-0.1382	0.7274
51012	B01	55049	84439	HHIPL1	-0.1380	0.7278
11024	A02	5036	55275	VPS53	-0.1379	0.7279
11081	F09	9224	284123	FAM27L	-0.1377	0.7284
31007	A07	11181	58499	ZNF462	-0.1375	0.7286
51035	B10	54476	340562	SATL1	-0.1372	0.7290
31007	E08	10880	170692	ADAMTS18	-0.1371	0.7292
11072	G07	2327	80095	ZNF606	-0.1371	0.7294
11024	C10	4722	56922	MCCC1	-0.1370	0.7295
31009	C04	11788	83444	INO80B	-0.1370	0.7295
11061	B11	1149	80723	TMEM22	-0.1369	0.7297
31015	C07	12699	8490	RGS5	-0.1369	0.7297
31023	F05	13401	55197	RPRD1A	-0.1368	0.7298
11038	F01	6157	10133	OPTN	-0.1367	0.7299
11084	G03	636	4909	NTF4	-0.1364	0.7305
51012	A01	53925	10235	RASGRP2	-0.1363	0.7306
11049	G04	9114	113510	HELQ	-0.1362	0.7309
11035	G11	7463	5261	PHKG2	-0.1361	0.7310
51005	A06	54299	85481	PSKH2	-0.1361	0.7310
31016	D08	12409	90313	TP53I13	-0.1359	0.7313
11054	G10	3299	81855	SFXN3	-0.1357	0.7316
51022	E04	56282	9475	ROCK2	-0.1357	0.7317
11078	D06	7306	79571	GCC1	-0.1354	0.7322
11083	B01	605	2171	FABP5	-0.1353	0.7324
51009	A05	54746	4920	ROR2	-0.1350	0.7328
31016	G07	12824	57038	RARS2	-0.1349	0.7329
11037	H07	5138	8394	PIP5K1A	-0.1349	0.7330

11088	F05	9727	6477	SIAH1	-0.1348	0.7332
11080	A07	9794	5257	PHKB	-0.1346	0.7335
11061	D06	659	3417	IDH1	-0.1346	0.7336
31009	G02	11782	94081	SFXN1	-0.1345	0.7336
11030	G10	9946	5179	PENK	-0.1344	0.7338
11046	F05	7356	55353	LAPTM4B	-0.1344	0.7338
51026	F12	53236	58504	ARHGAP22	-0.1343	0.7341
11020	B09	5632	9077	DIRAS3	-0.1342	0.7341
11071	D02	6623	7564	ZNF16	-0.1341	0.7343
31003	H11	10468	1001	CDH3	-0.1341	0.7344
31025	C04	13659	5787	PTPRB	-0.1340	0.7344
11003	G07	8806	84193	SETD3	-0.1339	0.7347
11042	C01	9083	80025	PANK2	-0.1338	0.7349
11020	E07	7889	NA	NA	-0.1337	0.7351
51013	F08	54464	4033	LRMP	-0.1335	0.7354
11025	F01	6681	6949	TCOF1	-0.1334	0.7354
11042	C06	4764	8357	HIST1H3H	-0.1333	0.7357
11026	E10	9816	139728	PNCK	-0.1333	0.7358
51020	E08	56446	390212	GPR152	-0.1332	0.7358
51028	D04	56411	162967	ZNF320	-0.1332	0.7358
11039	H09	1566	151050	C2orf67	-0.1332	0.7359
11071	C11	2562	284565	NBPF15	-0.1332	0.7359
11058	B12	4636	6895	TARBP2	-0.1331	0.7360
11005	C10	534	5653	KLK6	-0.1330	0.7362
51009	F03	52693	64084	CLSTN2	-0.1329	0.7363
11049	D03	8742	6744	SSFA2	-0.1328	0.7366
11025	F02	4257	9904	RBM19	-0.1327	0.7367
31005	F05	11273	161753	ODF3L1	-0.1325	0.7371
11045	B08	7207	55863	TMEM126B	-0.1324	0.7372
11024	C01	4563	823	CAPN1	-0.1323	0.7374
11080	C07	8409	5159	PDGFRB	-0.1323	0.7375
31012	E12	12272	10106	CTDSP2	-0.1322	0.7375
51034	C07	53619	118424	UBE2J2	-0.1322	0.7375
11027	G02	8837	55031	USP47	-0.1321	0.7378
11039	D05	2344	122481	AK7	-0.1320	0.7378
31009	D08	11639	6861	SYT5	-0.1319	0.7381
11020	B01	5325	83591	THAP2	-0.1318	0.7383
31002	A10	10795	285440	CYP4V2	-0.1317	0.7384
31003	H06	10742	93550	ANUBL1	-0.1316	0.7386
31001	C08	10273	28517	TRDV2	-0.1316	0.7386
11045	C06	7266	55049	C19orf60	-0.1314	0.7389
11069	G07	6448	8161	COIL	-0.1314	0.7390
11082	A04	2181	4852	NPY	-0.1312	0.7393
31003	C07	10411	153830	RNF145	-0.1311	0.7394

31022	H02	13550	149466	C1orf210	-0.1311	0.7394
11019	A12	5360	29928	TIMM22	-0.1310	0.7395
11078	C06	7626	79798	ARMC5	-0.1309	0.7399
11069	A10	6035	949	SCARB1	-0.1308	0.7400
11029	H10	5024	51523	CXXC5	-0.1307	0.7401
51014	F03	52939	1129	CHRM2	-0.1306	0.7403
11080	B10	7283	9202	ZMYM4	-0.1304	0.7406
31019	F09	12840	10799	RPP40	-0.1304	0.7407
51025	B08	55363	23178	PASK	-0.1303	0.7408
51018	B04	56571	126074	C19orf39	-0.1302	0.7409
11037	A05	3454	887	CCKBR	-0.1297	0.7418
51020	F05	55856	1296	COL8A2	-0.1296	0.7420
11029	C08	5605	4801	NFYB	-0.1295	0.7422
11041	D09	2274	11345	GABARAPL2	-0.1291	0.7428
11042	B06	2739	51082	POLR1D	-0.1290	0.7430
31043	A04	7883	84936	ZFYVE19	-0.1289	0.7432
11083	F10	9199	5368	PNOC	-0.1289	0.7432
31042	C01	4638	1477	CSTF1	-0.1288	0.7433
11028	E02	8775	50801	KCNK4	-0.1288	0.7434
11038	E12	5050	83732	RIOK1	-0.1287	0.7436
51025	D12	53152	27436	EML4	-0.1286	0.7438
11087	C03	2835	3382	ICA1	-0.1285	0.7438
51002	B07	55272	728032	MGC45713	-0.1285	0.7438
51023	F04	56260	65981	CAPRIN2	-0.1283	0.7442
31036	D01	10927	54331	GNG2	-0.1282	0.7445
51018	D04	56794	116379	IL22RA2	-0.1279	0.7449
51010	E05	52673	56920	SEMA3G	-0.1277	0.7452
31041	H08	3786	81605	URM1	-0.1276	0.7453
51028	A12	53291	57509	MTUS1	-0.1274	0.7457
51013	H03	53829	79847	TMEM180	-0.1274	0.7458
51015	G05	52944	26212	OR2B6	-0.1273	0.7459
11075	B08	5723	6440	SFTPC	-0.1273	0.7459
31025	G09	14068	8366	HIST1H4B	-0.1273	0.7459
31045	E08	7985	2953	GSTT2	-0.1271	0.7463
11080	A10	2542	23262	PIIP5K2	-0.1270	0.7464
11020	H01	5259	56902	PNO1	-0.1270	0.7464
11055	G06	6287	5673	PSG5	-0.1270	0.7465
11041	C09	8674	26751	SH3YL1	-0.1268	0.7469
31045	G06	3264	79019	CENPM	-0.1267	0.7469
31002	G07	10769	51435	SCARA3	-0.1267	0.7469
51028	B08	56472	54802	TRIT1	-0.1266	0.7471
31013	D04	12186	54432	YIPF1	-0.1266	0.7471
11038	C05	3407	79065	ATG9A	-0.1266	0.7472
11083	E06	812	26994	RNF11	-0.1264	0.7474

11083	E10	9164	4924	NUCB1	-0.1264	0.7474
51023	C04	56332	54801	HAUS6	-0.1264	0.7476
51029	H06	55334	93109	TMEM44	-0.1263	0.7476
31027	D06	13917	5062	PAK2	-0.1263	0.7476
51005	D05	55022	387129	NPSR1	-0.1261	0.7481
11037	C11	8089	26092	TOR1AIP1	-0.1260	0.7481
11009	A06	5936	23761	PISD	-0.1260	0.7482
31010	E10	11611	5885	RAD21	-0.1259	0.7483
11028	D08	2983	865	CBFB	-0.1259	0.7484
31012	A10	12286	10134	BCAP31	-0.1259	0.7484
11084	H05	3605	2947	GSTM3	-0.1259	0.7484
11048	B07	512	80011	FAM192A	-0.1258	0.7485
11042	C08	7202	8355	HIST1H3G	-0.1257	0.7486
31001	F01	10666	139341	FUNDC1	-0.1257	0.7487
11024	C04	9635	1857	DVL3	-0.1257	0.7487
11025	E07	5059	161	AP2A2	-0.1257	0.7487
11028	E09	3632	27065	D4S234E	-0.1256	0.7488
11058	G10	1932	23471	TRAM1	-0.1256	0.7488
31021	F09	12975	1580	CYP4B1	-0.1256	0.7489
11024	H01	8526	79958	DENND1C	-0.1254	0.7492
11045	A07	4852	1412	CRYBA2	-0.1253	0.7494
31031	F07	14620	3676	ITGA4	-0.1253	0.7494
51016	G08	56612	353139	LCE2A	-0.1250	0.7499
51006	C06	54819	148268	ZNF570	-0.1248	0.7502
31025	F09	14010	2520	GAST	-0.1248	0.7502
51031	A11	55265	259197	NCR3	-0.1247	0.7504
11072	F11	1636	203102	ADAM32	-0.1246	0.7505
11059	B05	8181	2820	GPD2	-0.1243	0.7510
11051	F06	855	51116	MRPS2	-0.1243	0.7511
11062	G10	1419	4642	MYO1D	-0.1242	0.7512
31023	C05	13610	5306	PITPNA	-0.1242	0.7513
31032	G11	14731	79736	C17orf42	-0.1242	0.7513
31009	B02	11769	79805	VASH2	-0.1241	0.7514
11071	C10	9475	151651	EFHB	-0.1240	0.7516
31025	G05	13415	79631	EFTUD1	-0.1240	0.7517
31022	H06	13344	494141	LOC494141	-0.1240	0.7517
31009	A05	11541	5940	RBMY1A1	-0.1239	0.7517
51028	D01	53379	90075	ZNF30	-0.1239	0.7519
51011	B10	54490	7539	ZFP37	-0.1237	0.7521
31030	E10	14423	10466	COG5	-0.1237	0.7522
51005	F07	53519	8513	LIPF	-0.1237	0.7522
51009	C06	54451	6294	SAFB	-0.1235	0.7524
11078	F03	6158	7089	TLE2	-0.1235	0.7525
31005	H04	11099	124936	CYB5D2	-0.1235	0.7525

11087	H07	6066	79083	MLPH	-0.1234	0.7527
31033	G02	14671	1725	DHPS	-0.1232	0.7531
11042	C09	1000	80094	FLJ14107	-0.1232	0.7531
11080	H05	2019	56142	PCDHA6	-0.1231	0.7532
11045	D04	5778	4071	TM4SF1	-0.1231	0.7533
31006	G06	11169	130162	C2orf63	-0.1229	0.7535
31006	B06	10854	57707	KIAA1609	-0.1229	0.7536
11042	H07	3484	808	CALM3	-0.1229	0.7536
11038	G09	1983	23683	PRKD3	-0.1227	0.7538
11058	H10	7370	115548	FCHO2	-0.1227	0.7539
11060	G05	9257	118788	PIK3AP1	-0.1227	0.7539
31020	F08	12855	902	CCNH	-0.1227	0.7540
11079	H01	2148	55655	NLRP2	-0.1226	0.7540
51022	D01	55853	2243	FGA	-0.1226	0.7541
11014	C12	5862	3326	HSP90AB1	-0.1226	0.7541
31033	A12	14909	7404	UTY	-0.1225	0.7542
11041	E06	8635	10010	TANK	-0.1224	0.7544
31042	C05	6714	79047	KCTD15	-0.1220	0.7551
31019	B04	13111	27178	IL1F7	-0.1220	0.7551
31028	F11	15066	55086	CXorf57	-0.1219	0.7553
11067	E12	1624	6677	SPAM1	-0.1219	0.7553
11059	B08	1240	3766	KCNJ10	-0.1217	0.7556
11025	G03	2175	170506	DHX36	-0.1216	0.7557
11072	C10	205	4594	MUT	-0.1216	0.7557
11080	B12	2132	9631	NUP155	-0.1216	0.7558
11032	G01	9108	10174	SORBS3	-0.1214	0.7561
11021	F01	3781	4580	MTX1	-0.1209	0.7569
31002	F02	10404	23787	MTCH1	-0.1209	0.7570
11020	C04	7411	92421	CHMP4C	-0.1208	0.7571
51010	D07	52685	51804	SIX4	-0.1207	0.7574
51017	E11	56562	55916	NXT2	-0.1206	0.7575
31009	G03	11795	84058	WDR54	-0.1204	0.7580
31038	G04	14476	56923	NMUR2	-0.1202	0.7582
31038	G05	14539	26123	TCTN3	-0.1201	0.7583
51029	A03	55686	201191	SAMD14	-0.1201	0.7583
11041	D10	1348	11345	GABARAPL2	-0.1200	0.7586
11049	B01	5407	90407	TMEM41A	-0.1199	0.7588
11085	C07	1503	79882	ZC3H14	-0.1198	0.7589
11047	A09	8765	388677	NOTCH2NL	-0.1197	0.7590
11054	B08	7490	9122	SLC16A4	-0.1196	0.7592
11058	H09	8440	2331	FMOD	-0.1196	0.7594
11082	A05	2733	9848	MFAP3L	-0.1195	0.7594
31025	C03	13588	242	ALOX12B	-0.1195	0.7595
11021	G07	3970	3163	HMOX2	-0.1195	0.7595

11083	B05	5369	51264	MRPL27	-0.1194	0.7596
31030	B05	14359	158584	FAAH2	-0.1194	0.7596
11030	D11	4678	6194	RPS6	-0.1193	0.7597
51013	H11	53131	64577	ALDH8A1	-0.1192	0.7600
11021	A09	5135	8939	FUBP3	-0.1192	0.7600
51020	A07	55818	2559	GABRA6	-0.1191	0.7602
11037	C09	3979	4924	NUCB1	-0.1190	0.7603
11028	A07	8773	7903	ST8SIA4	-0.1190	0.7604
31004	A07	10914	402176	RPL21P44	-0.1189	0.7604
51009	E05	54084	27154	BRPF3	-0.1189	0.7605
11036	A03	2379	5166	PDK4	-0.1188	0.7607
11087	H04	6825	1718	DHCR24	-0.1187	0.7609
11084	E05	376	54749	EPDR1	-0.1186	0.7611
11079	H02	5212	56949	XAB2	-0.1185	0.7612
51020	F10	56022	5077	PAX3	-0.1185	0.7613
11083	E04	129	119710	C11orf74	-0.1184	0.7614
11060	H02	1323	196477	C12orf12	-0.1184	0.7614
11058	C10	9081	114885	OSBPL11	-0.1184	0.7614
11035	A06	1870	11103	KRR1	-0.1183	0.7615
31037	A04	12520	65083	NOL6	-0.1183	0.7615
31005	B05	11076	83593	RASSF5	-0.1183	0.7616
11039	B03	8199	3320	HSP90AA1	-0.1182	0.7617
11038	B10	3512	6301	SARS	-0.1182	0.7617
31036	C07	11689	4338	MOCS2	-0.1182	0.7618
11029	G11	7162	3216	HOXB6	-0.1180	0.7620
11057	G02	4582	10614	HEXIM1	-0.1180	0.7621
11017	F10	6355	5304	PIP	-0.1179	0.7623
31019	G03	12870	84932	RAB2B	-0.1178	0.7624
11060	H11	9739	4332	MNDA	-0.1177	0.7625
51012	H10	54201	129881	C2orf77	-0.1173	0.7633
31001	B04	10338	2879	GPX4	-0.1172	0.7634
11082	G11	5856	8334	HIST1H2AC	-0.1171	0.7637
11071	C02	9864	55198	APPL2	-0.1170	0.7639
31024	A09	13781	2873	GPS1	-0.1169	0.7640
31030	C06	14272	10713	USP39	-0.1168	0.7642
11083	D01	2394	6161	RPL32	-0.1168	0.7642
11066	G08	4259	84260	TCHP	-0.1167	0.7643
31033	A06	14989	NA	NA	-0.1167	0.7644
51031	F09	53367	84068	SLC10A7	-0.1166	0.7645
11024	D02	9776	60312	AFAP1	-0.1165	0.7647
51014	E11	53024	57115	PGLYRP4	-0.1164	0.7649
51014	E06	52835	23547	LILRA4	-0.1164	0.7649
11048	C05	8966	79443	FYCO1	-0.1164	0.7650
11070	G02	6547	51132	RLIM	-0.1163	0.7650

11036	D03	846	9962	SLC23A2	-0.1163	0.7651
11084	D02	7502	51626	DYNC2LI1	-0.1163	0.7652
51029	G05	55374	221074	SLC39A12	-0.1162	0.7653
31002	E10	10677	3841	KPNA5	-0.1159	0.7657
51016	B05	55738	337972	KRTAP19-5	-0.1159	0.7657
11058	G01	2676	947	CD34	-0.1159	0.7658
31024	G08	13558	6389	SDHA	-0.1159	0.7658
31017	F04	12719	NA	NA	-0.1159	0.7658
11038	F03	5058	84795	PYROXD2	-0.1159	0.7659
31018	G11	12920	6385	SDC4	-0.1158	0.7659
11079	H04	9165	89797	NAV2	-0.1158	0.7659
11084	B03	668	138050	HGSNAT	-0.1155	0.7665
11040	B07	3679	NA	NA	-0.1155	0.7665
11079	E11	9616	8546	AP3B1	-0.1154	0.7667
11082	A07	8687	126823	KLHDC9	-0.1154	0.7667
11026	E07	96	219738	C10orf35	-0.1153	0.7668
51015	A01	52871	10714	POLD3	-0.1152	0.7669
11080	B03	3472	11187	PKP3	-0.1152	0.7669
11062	G08	8063	5163	PDK1	-0.1151	0.7672
31001	B08	10678	127733	UBXN10	-0.1151	0.7673
51028	H08	55317	199692	ZNF627	-0.1150	0.7673
11024	G06	9551	57795	FAM5B	-0.1150	0.7674
51016	F05	56610	149685	ADIG	-0.1148	0.7676
11029	E03	8360	64342	HS1BP3	-0.1148	0.7677
31040	A06	10040	974	CD79B	-0.1148	0.7678
11059	D01	1626	204219	LASS3	-0.1148	0.7678
31043	E02	7630	356	FASLG	-0.1147	0.7678
11020	E12	6110	54960	GEMIN8	-0.1147	0.7679
31017	G04	13236	7369	UMOD	-0.1145	0.7682
11042	B01	5032	84317	CCDC115	-0.1145	0.7683
11088	H03	5227	85012	TCEAL3	-0.1144	0.7684
31010	A02	11468	8550	MAPKAPK5	-0.1143	0.7686
51029	A07	53253	445571	CBWD3	-0.1142	0.7687
11028	E10	3161	9519	TBPL1	-0.1139	0.7693
11084	G05	8862	79066	METT10D	-0.1139	0.7693
11088	H10	2923	117248	GALNTL2	-0.1138	0.7695
11024	F09	9523	151613	TTC14	-0.1137	0.7696
11041	G11	7132	27109	ATP5S	-0.1136	0.7698
11029	E09	506	9965	FGF19	-0.1136	0.7698
51006	B06	53686	4248	MGAT3	-0.1136	0.7699
31011	C08	12108	1622	DBI	-0.1134	0.7702
31031	B02	14469	653391	LOC653391	-0.1134	0.7703
51026	D12	55614	1982	EIF4G2	-0.1133	0.7703
31013	A07	11867	112476	PRRT2	-0.1132	0.7705

51027	A11	55253	79968	WDR76	-0.1132	0.7705
11050	B10	2731	79101	TAF1D	-0.1132	0.7705
11052	B07	5984	6309	SC5DL	-0.1131	0.7708
11039	E10	2093	150082	LCA5L	-0.1130	0.7708
11066	E10	4118	6429	SRSF4	-0.1130	0.7709
51020	F06	56015	644619	INTS4L2	-0.1130	0.7709
11035	B02	3138	116138	KLHDC3	-0.1129	0.7710
31016	B10	12655	60489	APOBEC3G	-0.1128	0.7712
11032	C12	2067	54956	PARP16	-0.1126	0.7715
51010	E09	52828	57547	ZNF624	-0.1126	0.7716
11070	E08	9560	23283	CSTF2T	-0.1125	0.7718
31033	D06	14931	389756	AQP7P2	-0.1124	0.7719
11071	B07	10214	9639	ARHGEF10	-0.1124	0.7720
11040	C08	8644	84142	FAM175A	-0.1124	0.7720
11009	F07	5825	64777	RMND5B	-0.1123	0.7721
11083	G03	2794	3040	HBA2	-0.1121	0.7726
31036	B08	12165	137835	TMEM71	-0.1120	0.7726
31032	C11	14776	79674	VEPH1	-0.1120	0.7727
31038	C02	14822	4246	SCGB2A1	-0.1118	0.7730
31005	A12	10957	2564	GABRE	-0.1115	0.7735
11039	D12	5321	8451	CUL4A	-0.1115	0.7736
11012	H06	7069	6472	SHMT2	-0.1115	0.7736
11017	H08	6997	7319	UBE2A	-0.1115	0.7736
31024	F04	13596	5520	PPP2R2A	-0.1115	0.7736
11087	H11	197	51317	PHF21A	-0.1114	0.7737
31027	D05	14020	1562	CYP2C18	-0.1114	0.7737
31044	E07	4751	1013	CDH15	-0.1114	0.7737
11029	H01	8892	2571	GAD1	-0.1113	0.7739
11049	B12	1436	135886	WBSCR28	-0.1113	0.7739
11049	C07	5937	22943	DKK1	-0.1112	0.7741
31019	B05	12956	9073	CLDN8	-0.1112	0.7741
11041	F11	1681	256586	LYSMD2	-0.1112	0.7742
11082	H11	5885	2537	IFI6	-0.1110	0.7745
31020	F05	13249	9134	CCNE2	-0.1107	0.7749
31011	B08	12140	124460	SNX20	-0.1107	0.7749
11079	G09	9930	64072	CDH23	-0.1107	0.7750
31040	H04	9266	254528	C16orf73	-0.1107	0.7750
51009	G01	53115	4659	PPP1R12A	-0.1107	0.7751
31043	D05	6606	54328	GPR173	-0.1106	0.7753
11072	C07	2273	6775	STAT4	-0.1106	0.7753
31027	F02	14043	55855	FAM45B	-0.1105	0.7754
11048	C07	34	7531	YWHAE	-0.1104	0.7755
51032	E04	53360	414328	C9orf103	-0.1104	0.7755
31024	C10	13481	29979	UBQLN1	-0.1104	0.7756

11067	H04	6559	7984	ARHGEF5	-0.1103	0.7757
11082	F08	8088	NA	NA	-0.1101	0.7760
11043	F07	8866	54840	APTX	-0.1101	0.7761
31042	B07	7084	51117	COQ4	-0.1101	0.7762
11035	G10	1771	23588	KLHDC2	-0.1100	0.7762
11005	A08	793	84876	ORAI1	-0.1099	0.7763
11072	B11	8843	54906	C10orf18	-0.1099	0.7764
31002	C12	10263	2262	GPC5	-0.1098	0.7766
11082	H10	9489	348035	MGC40069	-0.1098	0.7766
31004	F04	10282	7174	TPP2	-0.1097	0.7767
11020	F10	9116	5970	RELA	-0.1095	0.7772
31014	D12	12677	NA	NA	-0.1094	0.7773
31027	G05	13914	124359	CDYL2	-0.1094	0.7773
51006	C04	55039	81786	TRIM7	-0.1094	0.7774
11020	B11	9012	27252	KLHL20	-0.1093	0.7774
11083	F05	911	79026	AHNAK	-0.1093	0.7775
11025	C11	7239	5125	PCSK5	-0.1093	0.7775
11063	H04	9735	57587	KIAA1430	-0.1093	0.7775
11040	A09	4357	644903	FLJ38668	-0.1092	0.7778
31027	E09	15035	5023	P2RX1	-0.1091	0.7779
11042	F08	9118	6793	STK10	-0.1090	0.7781
51011	A10	54883	1103	CHAT	-0.1089	0.7783
11005	D05	2639	80328	ULBP2	-0.1088	0.7784
31032	A02	14530	2048	EPHB2	-0.1087	0.7785
11072	A10	3546	29889	GNL2	-0.1085	0.7789
31005	H08	11130	55508	SLC35E3	-0.1085	0.7790
31013	C09	12019	91526	ANKRD44	-0.1085	0.7790
11028	D01	3585	51282	SCAND1	-0.1084	0.7791
31021	H04	13182	7013	TERF1	-0.1084	0.7791
11038	A09	3273	4145	MATK	-0.1083	0.7793
51016	H01	53753	283948	NHLRC4	-0.1083	0.7794
11039	E09	1442	2182	ACSL4	-0.1082	0.7794
11024	G04	5358	5213	PFKM	-0.1081	0.7796
11047	A05	7304	51015	ISOC1	-0.1081	0.7796
11032	H11	8721	23244	PDS5A	-0.1080	0.7798
31011	B04	11667	9719	ADAMTSL2	-0.1079	0.7800
11040	B01	2469	3480	IGFIR	-0.1076	0.7805
31015	H07	12453	140767	NRSN1	-0.1076	0.7805
31011	C07	11899	57593	EBF4	-0.1074	0.7809
51020	B09	55832	651	BMP3	-0.1074	0.7810
11042	C05	4337	29108	PYCARD	-0.1072	0.7813
31027	A05	13932	799	CALCR	-0.1071	0.7814
31017	D01	12574	131583	FAM43A	-0.1071	0.7814
51026	G11	55639	55030	FBXO34	-0.1070	0.7817

11049	H07	186	55148	UBR7	-0.1067	0.7822
31025	F10	14081	5816	PVALB	-0.1067	0.7822
31042	B05	6688	92305	TMEM129	-0.1066	0.7823
11038	D08	5034	80317	ZKSCAN3	-0.1066	0.7824
31002	C04	10334	60680	CELF5	-0.1066	0.7824
31039	G04	8664	9364	RAB28	-0.1065	0.7824
31021	H01	13065	3426	CFI	-0.1065	0.7825
51002	G02	52638	25874	BRP44	-0.1065	0.7825
51022	C02	56809	284391	ZNF844	-0.1065	0.7826
11072	E11	3769	9146	HGS	-0.1065	0.7826
51002	E07	53794	339535	LOC339535	-0.1065	0.7826
11070	C01	10157	126070	ZNF440	-0.1064	0.7826
11077	F08	1879	151254	ALS2CR11	-0.1064	0.7828
11083	B08	4868	NA	NA	-0.1064	0.7828
11075	E10	5799	6013	RLN1	-0.1063	0.7829
31036	E11	12632	51006	SLC35C2	-0.1063	0.7829
11021	G02	4698	9518	GDF15	-0.1062	0.7830
11078	C07	5327	84219	WDR24	-0.1062	0.7831
11080	E08	10181	3687	ITGAX	-0.1062	0.7831
11029	E04	7474	10423	CDIPT	-0.1062	0.7831
11078	G08	3726	4172	MCM3	-0.1062	0.7832
31013	C11	12281	167227	DCP2	-0.1061	0.7832
11075	A10	4047	79097	TRIM48	-0.1061	0.7833
51024	G03	55159	25925	ZNF521	-0.1060	0.7835
11080	F05	10163	5585	PKN1	-0.1059	0.7836
11038	H07	9086	54882	ANKHD1	-0.1059	0.7836
11028	B12	8689	55614	KIF16B	-0.1059	0.7837
31021	H02	13054	10026	PIGK	-0.1059	0.7837
31010	A04	11629	658	BMPR1B	-0.1059	0.7837
31024	G07	13608	54542	RC3H2	-0.1058	0.7838
11072	D01	2079	51224	TCEB3B	-0.1058	0.7838
11084	A01	3559	970	CD70	-0.1058	0.7838
11075	H03	815	5996	RGS1	-0.1057	0.7840
11058	H11	9460	5029	P2RY2	-0.1056	0.7842
51009	C05	54892	27152	INTU	-0.1054	0.7846
31042	F06	9093	79864	C11orf63	-0.1053	0.7847
31031	E12	14653	348174	CLEC18A	-0.1053	0.7848
51013	B11	52822	163786	SASS6	-0.1052	0.7848
31042	G04	6051	115827	RAB3C	-0.1052	0.7849
11026	H06	8001	23484	LEPROTL1	-0.1052	0.7850
31024	G09	13670	10855	HPSE	-0.1051	0.7851
31007	D09	11535	493753	C2orf64	-0.1050	0.7852
11021	D01	3429	3384	ICAM2	-0.1050	0.7853
51024	H05	53607	54904	WHSC1L1	-0.1049	0.7853

51008	A11	56297	6453	ITSN1	-0.1049	0.7854
11040	A11	6973	23367	LARP1	-0.1048	0.7855
11042	F09	5491	51668	HSPB11	-0.1048	0.7856
51005	G04	56768	285362	SUMF1	-0.1047	0.7857
11038	H04	1275	55295	KLHL26	-0.1047	0.7857
51002	D10	53091	9674	KIAA0040	-0.1047	0.7858
11072	F04	3572	5371	PML	-0.1047	0.7858
11009	E10	896	79042	TSEN34	-0.1047	0.7858
11082	A06	8901	55890	GPRC5C	-0.1045	0.7862
31024	B11	13757	3495	IGHD	-0.1044	0.7864
31009	A11	11811	10316	NMUR1	-0.1044	0.7864
51017	D06	56093	387628	KGFLP1	-0.1044	0.7864
31019	H11	13073	83464	APH1B	-0.1044	0.7864
51028	C06	53156	400720	ZNF772	-0.1043	0.7865
51006	A09	53939	51362	CDC40	-0.1041	0.7869
11080	C06	1881	56478	EIF4ENIF1	-0.1041	0.7869
11020	H07	7619	1511	CTSG	-0.1041	0.7869
11017	G06	7974	10267	RAMP1	-0.1040	0.7870
51008	C05	56070	9923	ZBTB40	-0.1040	0.7870
11049	A07	8712	163882	CNST	-0.1039	0.7873
51017	G03	55752	8968	HIST1H3F	-0.1038	0.7873
11088	D03	9006	5407	PNLIPRP1	-0.1038	0.7874
11060	F03	2252	170261	ZCCHC12	-0.1037	0.7877
11078	C08	1764	54536	EXOC6	-0.1036	0.7877
11029	F07	5675	51510	CHMP5	-0.1036	0.7878
11037	A06	3334	51763	INPP5K	-0.1035	0.7880
51014	G05	52880	10050	SLC17A4	-0.1035	0.7880
31032	C05	14524	55117	SLC6A15	-0.1034	0.7881
31041	G10	4998	414062	CCL3L3	-0.1034	0.7882
11013	F02	1866	153745	FAM71B	-0.1034	0.7882
31036	H02	10374	8567	MADD	-0.1033	0.7882
11070	F07	10039	55133	SRBD1	-0.1033	0.7883
31020	C09	12988	50489	CD207	-0.1033	0.7883
51033	D08	53640	632	BGLAP	-0.1033	0.7884
11026	F08	9548	51022	GLRX2	-0.1032	0.7885
11057	G03	5994	54187	NANS	-0.1032	0.7886
31025	H11	14072	8968	HIST1H3F	-0.1031	0.7888
11089	E03	2024	7179	TPTE	-0.1030	0.7888
11035	C08	6834	4176	MCM7	-0.1030	0.7889
11040	D04	865	56882	CDC42SE1	-0.1030	0.7889
51033	C05	54305	149992	ANKRD30BP2	-0.1029	0.7891
51004	G10	54417	4993	OR2C1	-0.1028	0.7891
11073	B08	3840	54107	POLE3	-0.1028	0.7892
31002	H09	10707	27039	PKD2L2	-0.1027	0.7893

11084	H10	4721	8635	RNASET2	-0.1027	0.7894
31012	F10	11937	3958	LGALS3	-0.1027	0.7894
11080	C08	1643	6522	SLC4A2	-0.1027	0.7895
11001	A12	8627	55677	IWS1	-0.1026	0.7895
51006	G11	55179	2591	GALNT3	-0.1026	0.7895
31024	D12	13690	50512	PODXL2	-0.1025	0.7898
11080	G07	2565	84464	BTBD12	-0.1024	0.7899
31026	D01	13903	51471	NAT8B	-0.1024	0.7899
31033	A01	14755	7109	TRAPPC10	-0.1024	0.7899
31031	H04	14522	554235	ASPDH	-0.1024	0.7900
11036	B06	7009	5176	SERPINF1	-0.1023	0.7900
11080	C11	6848	26999	CYFIP2	-0.1022	0.7904
11089	H02	996	8565	YARS	-0.1021	0.7906
11061	H03	1154	64376	IKZF5	-0.1020	0.7906
31043	H05	7390	55	ACPP	-0.1020	0.7906
11058	D12	2334	9926	LPGAT1	-0.1020	0.7907
31012	E04	12325	4155	MBP	-0.1019	0.7908
11062	F09	2224	201456	FBXO15	-0.1019	0.7908
31003	C03	10646	6940	ZNF354A	-0.1019	0.7908
31016	H06	12607	55625	ZDHHC7	-0.1019	0.7908
11029	B01	9708	55132	LARP1B	-0.1019	0.7908
11072	E03	1999	55783	FTSJD1	-0.1019	0.7909
11038	B04	5344	23061	TBC1D9B	-0.1018	0.7910
31020	D05	13114	366	AQP9	-0.1017	0.7912
11088	F06	2915	2687	GGT5	-0.1017	0.7912
31003	F08	10607	167691	LCA5	-0.1016	0.7913
11064	E01	1751	23012	STK38L	-0.1016	0.7915
51025	B11	56851	54880	BCOR	-0.1014	0.7917
11030	D07	6020	6194	RPS6	-0.1014	0.7918
31032	F08	14788	203068	TUBB	-0.1013	0.7920
31027	D10	14890	27120	DKKL1	-0.1013	0.7920
11020	A11	3196	11018	TMED1	-0.1010	0.7926
11038	C03	5434	56006	C19orf61	-0.1009	0.7926
51033	F06	54557	2796	GNRH1	-0.1009	0.7926
51034	B01	53809	3441	IFNA4	-0.1009	0.7926
11040	E01	2052	84419	C15orf48	-0.1008	0.7928
31031	H06	14660	121642	ALKBH2	-0.1008	0.7929
11005	A07	528	63924	CIDEC	-0.1007	0.7930
11078	B12	1379	222967	RSPH10B	-0.1007	0.7930
31022	E11	13467	116138	KLHDC3	-0.1007	0.7931
51003	B11	52644	9626	GUCA1C	-0.1006	0.7932
31031	B04	14598	59067	IL21	-0.1006	0.7932
11009	G03	3720	81628	TSC22D4	-0.1006	0.7932
31024	C03	13698	51200	CPA4	-0.1005	0.7934

31038	D05	14665	1958	EGR1	-0.1004	0.7935
31003	A06	10421	5073	PARN	-0.1004	0.7936
11029	E06	1173	221143	N6AMT2	-0.1003	0.7937
11028	F10	7378	10539	GLRX3	-0.1003	0.7938
31005	C10	11217	79777	ACBD4	-0.1002	0.7939
31007	H02	10890	6541	SLC7A1	-0.1002	0.7939
11064	F04	1887	83473	KATNAL2	-0.1002	0.7940
11078	G05	4937	84812	PLCD4	-0.1002	0.7940
51032	F11	56616	353332	KRTAP12-1	-0.1001	0.7941
11083	H01	8626	126961	HIST2H3C	-0.1001	0.7941
11021	A04	5499	28973	MRPS18B	-0.1001	0.7941
31041	D09	3976	10598	AHSA1	-0.1001	0.7941
31017	E03	12514	9093	DNAJA3	-0.1001	0.7942
51026	E12	56858	65986	ZBTB10	-0.1000	0.7944
11080	E02	4854	2071	ERCC3	-0.1000	0.7944
11041	D08	1446	4184	SMCP	-0.0999	0.7945
51006	G06	55673	8785	MATN4	-0.0999	0.7946
31005	G03	10939	201562	PTPLB	-0.0999	0.7946
31019	G06	13098	64407	RGS18	-0.0997	0.7948
31002	G04	10409	146540	ZNF785	-0.0996	0.7950
51016	E12	56570	100287333	FAM27E1	-0.0996	0.7951
11088	E10	991	9278	ZBTB22	-0.0996	0.7951
11041	C04	4908	10290	SPEG	-0.0995	0.7953
51024	E02	56063	50937	CDON	-0.0994	0.7954
11088	B05	5620	4869	NPM1	-0.0994	0.7954
31019	B12	13081	462	SERPINC1	-0.0994	0.7954
31025	E04	13748	6667	SP1	-0.0993	0.7955
11052	B02	1540	54585	LZTFL1	-0.0993	0.7956
31010	G09	11411	10180	RBM6	-0.0993	0.7956
11088	C12	2634	6049	RNF6	-0.0993	0.7956
31006	F06	10958	283537	SLC46A3	-0.0992	0.7958
31004	F02	10794	54778	RNF111	-0.0992	0.7958
11072	D08	3332	7037	TFRC	-0.0992	0.7959
11039	E01	7217	4931	NVL	-0.0991	0.7960
31005	G07	10835	9766	KIAA0247	-0.0991	0.7960
31043	G09	7847	824	CAPN2	-0.0990	0.7961
11079	A09	9288	479	ATP12A	-0.0989	0.7963
11083	G02	3187	25804	LSM4	-0.0989	0.7964
11020	H08	5669	515	ATP5F1	-0.0989	0.7964
11089	H03	9875	10864	SLC22A7	-0.0988	0.7965
31012	E01	12356	91966	CXorf40A	-0.0988	0.7966
31023	A03	13761	84940	CORO6	-0.0987	0.7967
11009	H04	469	3628	INPP1	-0.0986	0.7970
51016	H02	53865	9142	CXorf1	-0.0985	0.7971

11039	E03	1509	121441	NEDD1	-0.0984	0.7972
11083	C09	3114	8530	CST7	-0.0984	0.7972
11007	B05	5110	9117	SEC22C	-0.0983	0.7975
31003	G01	10714	9692	KIAA0391	-0.0982	0.7976
11029	H02	6740	10430	TMEM147	-0.0982	0.7976
11083	F07	9443	10867	TSPAN9	-0.0980	0.7979
51020	C11	56394	6513	SLC2A1	-0.0980	0.7980
31031	H09	14619	2781	GNAZ	-0.0980	0.7980
11082	D07	6959	NA	NA	-0.0978	0.7984
11035	A04	1320	51533	PHF7	-0.0977	0.7985
11027	G01	3113	64708	COPS7B	-0.0976	0.7987
31033	B09	15006	54985	HCFC1R1	-0.0975	0.7989
11030	A06	7514	50999	TMED5	-0.0975	0.7989
11066	E12	7073	7266	DNAJC7	-0.0975	0.7989
51022	A01	56637	6339	SCNN1D	-0.0975	0.7990
51018	F04	55783	3211	HOXB1	-0.0974	0.7990
51023	B02	55881	84515	MCM8	-0.0974	0.7991
31004	G06	11043	51125	GOLGA7	-0.0974	0.7991
31007	D01	11246	8633	UNC5C	-0.0974	0.7992
31012	C04	12130	83988	NCALD	-0.0973	0.7993
51001	A07	54171	149837	LOC149837	-0.0972	0.7994
51013	E11	52696	53632	PRKAG3	-0.0972	0.7994
11087	G05	4010	22888	UBOX5	-0.0972	0.7994
11041	H09	4813	1329	COX5B	-0.0972	0.7994
31036	H06	12162	55052	MRPL20	-0.0972	0.7995
51020	G04	55801	6760	SS18	-0.0972	0.7995
11004	D02	5750	84296	GINS4	-0.0972	0.7995
31024	D04	13768	23304	UBR2	-0.0972	0.7995
11086	G09	5000	54883	CWC25	-0.0971	0.7996
31024	A04	13405	57418	WDR18	-0.0970	0.7998
51009	C12	54189	2892	GRIA3	-0.0969	0.8000
31045	E04	6900	55761	TTC17	-0.0969	0.8000
31004	G07	11052	140606	SELM	-0.0969	0.8001
11040	A07	4295	728039	C21orf122	-0.0968	0.8001
11021	C09	3524	3386	ICAM4	-0.0968	0.8003
11032	A03	7074	55186	SLC25A36	-0.0967	0.8003
31038	A09	5921	115992	RNF166	-0.0967	0.8004
11088	A09	1486	26074	C20orf26	-0.0966	0.8005
11064	H05	4094	3855	KRT7	-0.0966	0.8006
31005	F11	10872	27201	GPR78	-0.0966	0.8006
11025	C09	2214	8450	CUL4B	-0.0965	0.8007
31005	H02	10815	79847	TMEM180	-0.0965	0.8007
11050	E03	4201	2705	GJB1	-0.0965	0.8007
11030	A10	3364	79005	SCNM1	-0.0965	0.8008

11024	E11	9763	5352	PLOD2	-0.0964	0.8010
51033	E11	53544	284467	FAM19A3	-0.0964	0.8010
31045	F08	3413	8572	PDLIM4	-0.0962	0.8014
11071	A06	203	9933	KIAA0020	-0.0961	0.8014
31025	G08	14061	1667	DEFA1	-0.0960	0.8016
11082	H07	7927	79144	PPDPF	-0.0960	0.8016
11035	C03	6282	8424	BBOX1	-0.0960	0.8016
31029	G11	14447	339745	SPOPL	-0.0960	0.8017
51017	E03	55751	8357	HIST1H3H	-0.0960	0.8018
11021	B10	8954	2747	GLUD2	-0.0959	0.8018
11064	H03	9752	55793	FAM63A	-0.0959	0.8019
11037	B04	9303	956	ENTPD3	-0.0959	0.8019
11080	E07	9694	23199	KIAA0182	-0.0959	0.8019
31017	C07	12455	7466	WFS1	-0.0958	0.8021
51030	B08	56540	64173	SPATA1	-0.0957	0.8022
31001	E04	10490	10138	YAF2	-0.0957	0.8022
11005	C09	9900	9069	CLDN12	-0.0956	0.8024
31036	C12	12172	8605	PLA2G4C	-0.0955	0.8025
31021	C10	13225	7364	UGT2B7	-0.0955	0.8026
31018	A05	13302	2591	GALNT3	-0.0955	0.8026
31028	A12	14212	5796	PTPRK	-0.0954	0.8027
31028	B03	15027	8874	ARHGEF7	-0.0954	0.8027
31001	H05	10786	8434	RECK	-0.0954	0.8028
11032	E08	9863	128864	C20orf144	-0.0954	0.8029
31028	B06	14134	11214	AKAP13	-0.0953	0.8029
11057	H07	3036	3177	SLC29A2	-0.0953	0.8030
11056	G02	4798	84080	C16orf48	-0.0953	0.8030
11028	D03	318	51388	NIP7	-0.0952	0.8031
11040	G06	5971	28978	TMEM14A	-0.0952	0.8032
11017	A03	8621	27242	TNFRSF21	-0.0951	0.8033
11021	E05	3628	2098	ESD	-0.0951	0.8033
31043	F09	7229	22906	TRAK1	-0.0951	0.8033
11040	E11	9106	79650	C16orf57	-0.0951	0.8034
31041	G11	4382	10001	MED6	-0.0950	0.8034
11042	H06	8180	810	CALML3	-0.0950	0.8034
31038	B02	14709	64284	RAB17	-0.0950	0.8035
11040	G09	5701	9341	VAMP3	-0.0950	0.8036
11015	B07	9097	79701	C17orf101	-0.0950	0.8036
31042	H01	3937	84286	TMEM175	-0.0949	0.8037
31002	C10	10419	2710	GK	-0.0949	0.8037
11007	F04	7161	54584	GNB1L	-0.0948	0.8039
11086	B10	4832	6687	SPG7	-0.0948	0.8040
51003	B06	52585	79676	OGFOD2	-0.0947	0.8041
11079	B11	2395	9675	TTI1	-0.0947	0.8041

31016	H08	12663	5426	POLE	-0.0947	0.8041
51028	A01	53275	27347	STK39	-0.0946	0.8043
51030	C07	55672	161247	FITM1	-0.0945	0.8044
11024	A07	3543	7045	TGFBI	-0.0945	0.8045
11061	F08	5777	8372	HYAL3	-0.0945	0.8045
31014	D10	12373	79175	ZNF343	-0.0945	0.8045
11028	G09	8672	5998	RGS3	-0.0945	0.8045
11057	C03	9997	11081	KERA	-0.0944	0.8047
11039	B12	5225	8829	NRP1	-0.0944	0.8047
11029	E11	2882	81551	STMN4	-0.0943	0.8048
11064	H04	10139	221078	NSUN6	-0.0943	0.8048
11083	A01	8389	4879	NPPB	-0.0943	0.8049
11022	D07	7140	23466	CBX6	-0.0942	0.8050
11082	G09	1002	201292	TRIM65	-0.0940	0.8054
31019	B11	13238	53405	CLIC5	-0.0940	0.8054
11026	G06	8604	57715	SEMA4G	-0.0940	0.8055
51018	C10	55919	342667	STAC2	-0.0939	0.8055
51025	A05	56876	30849	PIK3R4	-0.0939	0.8056
11066	C12	2989	6788	STK3	-0.0939	0.8056
11084	F07	6100	54732	TMED9	-0.0937	0.8058
51030	B07	53226	819	CAMLG	-0.0937	0.8059
51003	G06	52844	83954	FKSG83	-0.0937	0.8059
11058	C08	2193	51201	ZDHHC2	-0.0937	0.8059
31032	B10	14760	54993	ZSCAN2	-0.0937	0.8060
31016	B09	12447	57121	LPAR5	-0.0937	0.8060
11018	G06	7491	494143	CHAC2	-0.0937	0.8060
51001	B06	52667	51352	WT1AS	-0.0937	0.8060
31027	D04	14004	1142	CHRN3	-0.0934	0.8064
11061	H11	5290	1104	RCC1	-0.0934	0.8064
31012	C12	11920	375341	C3orf62	-0.0933	0.8067
11083	G04	2861	55848	C9orf46	-0.0933	0.8067
31041	E11	3831	529	ATP6V1E1	-0.0932	0.8068
51013	E02	54133	55054	ATG16L1	-0.0932	0.8068
11087	C12	6941	1299	COL9A3	-0.0932	0.8068
11038	C11	5102	55214	LEPREL1	-0.0932	0.8069
31039	F10	2986	498	ATP5A1	-0.0932	0.8069
31011	C03	11824	54537	FAM35A	-0.0931	0.8071
11040	D12	4754	84337	ELOF1	-0.0931	0.8071
11062	H04	146	11240	PADI2	-0.0930	0.8073
31014	B07	12328	151473	SLC16A14	-0.0929	0.8073
31006	G08	10986	80185	C8orf41	-0.0929	0.8074
11054	C10	2658	7730	ZNF177	-0.0929	0.8075
11024	D01	4261	80760	ITIH5	-0.0929	0.8075
51031	B03	53154	10934	MORF4	-0.0927	0.8077

11020	E02	5146	2596	GAP43	-0.0927	0.8077
31028	E03	14747	267004	PGBD3	-0.0927	0.8078
51010	A12	53114	25777	SUN2	-0.0927	0.8079
11084	D04	4848	NA	NA	-0.0927	0.8079
11086	C01	575	175	AGA	-0.0926	0.8079
31014	F06	12379	151056	PLB1	-0.0926	0.8080
51010	F05	54489	6670	SP3	-0.0925	0.8082
51018	B07	55784	135152	B3GAT2	-0.0925	0.8082
11061	A07	2975	64798	DEPDC6	-0.0924	0.8083
31037	A03	12541	6293	VPS52	-0.0924	0.8083
31007	A12	11796	387036	GUSBL1	-0.0924	0.8084
51033	A05	54667	337879	KRTAP8-1	-0.0923	0.8085
31035	H01	14968	23288	IQCE	-0.0923	0.8085
51020	E03	56012	353174	ZACN	-0.0922	0.8087
11048	A02	6213	51616	TAF9B	-0.0922	0.8088
11006	A01	8649	90806	ANGEL2	-0.0922	0.8088
31028	A11	15060	57698	KIAA1598	-0.0921	0.8088
31042	A07	6572	26262	TSPAN17	-0.0921	0.8089
11079	D12	1971	118491	TTC18	-0.0921	0.8090
31021	C04	13262	221476	PI16	-0.0920	0.8091
11014	A10	2892	10634	GAS2L1	-0.0920	0.8092
51013	C05	54561	4067	LYN	-0.0919	0.8092
31041	G07	6182	408050	NOMO3	-0.0919	0.8093
31019	E08	13047	146456	TMED6	-0.0919	0.8093
11079	G05	8071	63827	BCAN	-0.0919	0.8093
11072	H11	3440	56146	PCDHA2	-0.0919	0.8093
31032	C04	14558	168400	DDX53	-0.0919	0.8093
31001	C04	10656	200728	TMEM17	-0.0918	0.8094
51003	E08	53432	339231	ARL16	-0.0918	0.8095
31013	A12	11910	7752	ZNF200	-0.0918	0.8095
31028	A05	14108	27300	ZNF544	-0.0918	0.8095
11020	E03	7718	10544	PROCR	-0.0918	0.8095
31037	F12	14139	26166	RGS22	-0.0917	0.8096
51024	A09	55210	1105	CHD1	-0.0915	0.8100
51029	G06	56631	56956	LHX9	-0.0914	0.8102
11030	D04	8307	3002	GZMB	-0.0914	0.8102
11082	E10	9374	121273	C12orf54	-0.0914	0.8102
11086	B02	4887	1459	CSNK2A2	-0.0913	0.8103
11035	E10	1895	55466	DNAJA4	-0.0913	0.8104
11039	B05	7572	78999	LRFN4	-0.0913	0.8104
11088	G06	3021	10569	SLU7	-0.0913	0.8104
11044	B06	1426	57092	PCNP	-0.0912	0.8106
31007	F12	11420	254263	CNIH2	-0.0912	0.8106
51031	H05	55595	54876	DCAF16	-0.0912	0.8106

31009	A01	11512	375346	TMEM110	-0.0911	0.8108
31028	B02	15042	204474	PDILT	-0.0910	0.8109
31037	D10	15028	160897	GPR180	-0.0909	0.8111
11040	F01	859	92070	C4orf42	-0.0909	0.8111
31036	C10	11825	4209	MEF2D	-0.0909	0.8111
11045	D06	294	9929	JOSD1	-0.0909	0.8111
11038	C12	5917	50512	PODXL2	-0.0909	0.8112
31010	G05	11345	54620	FBXL19	-0.0909	0.8112
51009	A01	53058	56204	KIAA1370	-0.0909	0.8112
51012	G05	54383	269	AMHR2	-0.0909	0.8112
11059	D12	1826	9577	BRE	-0.0908	0.8113
11009	F10	3758	3421	IDH3G	-0.0908	0.8114
11024	A11	4129	6891	TAP2	-0.0907	0.8115
11078	C10	1730	2009	EML1	-0.0907	0.8115
31015	C02	12471	81563	C1orf21	-0.0907	0.8115
51016	H09	55996	339788	LOC339788	-0.0907	0.8115
31005	A06	11208	1053	CEBPE	-0.0906	0.8116
31031	F12	14480	84975	MFSD5	-0.0905	0.8118
11058	D11	1441	54329	GPR85	-0.0905	0.8119
11083	E03	9375	152065	C3orf22	-0.0905	0.8119
31023	F03	13371	284992	CCDC150	-0.0905	0.8119
11075	E06	4863	6533	SLC6A6	-0.0905	0.8120
31013	C08	12177	27125	AFF4	-0.0904	0.8121
31002	E05	10388	85453	TSPYL5	-0.0903	0.8123
11043	G02	8316	5534	PPP3R1	-0.0902	0.8124
11071	B01	2384	10928	RALBP1	-0.0902	0.8125
11021	C01	5613	335	APOA1	-0.0902	0.8125
11013	G02	3914	9055	PRC1	-0.0901	0.8126
51029	D02	56917	340706	VWA2	-0.0901	0.8126
11013	A05	5479	279	AMY2A	-0.0901	0.8126
11079	A10	9540	22983	MAST1	-0.0901	0.8126
51013	C06	54899	220963	SLC16A9	-0.0900	0.8128
11075	G08	4575	5504	PPP1R2	-0.0900	0.8128
11036	F07	3523	23623	RUSC1	-0.0900	0.8128
11005	B08	2911	79903	NAT15	-0.0899	0.8130
11009	E06	2936	1117	CHI3L2	-0.0899	0.8130
51014	D04	52974	146050	ZSCAN29	-0.0899	0.8131
11058	B11	4335	3107	HLA-C	-0.0897	0.8134
11005	G05	8321	8431	NR0B2	-0.0897	0.8134
31020	C03	13174	132851	SPATA4	-0.0896	0.8135
11049	G11	3074	84329	HVCN1	-0.0896	0.8136
11041	E04	2575	83640	FAM103A1	-0.0895	0.8138
31005	B11	11093	157807	CLVS1	-0.0895	0.8138
51025	B05	56932	3791	KDR	-0.0894	0.8139

31023	E02	13532	3535	IGL@	-0.0894	0.8140
31043	A08	6593	84946	LTV1	-0.0894	0.8140
31043	A07	7653	1910	EDNRB	-0.0894	0.8140
11083	D04	8031	51806	CALML5	-0.0893	0.8141
11013	A06	799	26959	HBP1	-0.0893	0.8142
31017	F05	13078	4719	NDUFS1	-0.0892	0.8144
11082	D10	8801	79693	YRDC	-0.0890	0.8147
11013	F07	6113	84858	ZNF503	-0.0890	0.8147
11046	D08	4414	2939	GSTA2	-0.0890	0.8147
51033	A07	54102	200261	LOC200261	-0.0889	0.8148
11058	H02	4750	11321	GPN1	-0.0889	0.8149
11020	D11	7512	127018	LYPLAL1	-0.0889	0.8149
51029	H05	55484	283298	OLFML1	-0.0888	0.8150
51008	G02	54109	9860	LRIG2	-0.0888	0.8150
31009	F02	11489	84885	ZDHHC12	-0.0888	0.8151
11079	A03	7296	8842	PROM1	-0.0888	0.8151
51002	F10	53748	340094	LOC340094	-0.0886	0.8154
11082	E08	6061	90871	C9orf123	-0.0886	0.8155
31021	C01	13146	9134	CCNE2	-0.0886	0.8155
11036	D01	9414	54507	ADAMTSL4	-0.0886	0.8155
51028	E05	53255	124961	ZFP3	-0.0885	0.8156
51033	B12	54525	100132147	LOC100132147	-0.0882	0.8161
31039	E05	2823	4828	NMB	-0.0882	0.8163
11038	A04	9404	79934	ADCK4	-0.0882	0.8163
31004	H09	11141	138429	PIP5KL1	-0.0880	0.8165
31032	B03	14525	405754	ERVRDE1	-0.0880	0.8167
11039	A10	2219	23708	GSPT2	-0.0879	0.8168
31017	F09	13084	10301	DLEU1	-0.0879	0.8169
11024	A06	3292	9129	PRPF3	-0.0879	0.8169
11017	C11	6646	79622	SNRNP25	-0.0878	0.8170
31025	H08	14074	147199	SCGB1C1	-0.0878	0.8170
11074	C04	5445	11097	NUPL2	-0.0877	0.8171
51011	G07	54959	81626	C1orf14	-0.0877	0.8171
51011	C08	52906	125893	ZNF816	-0.0877	0.8171
31033	H09	14903	80012	PHC3	-0.0877	0.8172
51004	C12	54300	139760	GPR119	-0.0877	0.8172
11072	D07	7833	57464	FAM40B	-0.0876	0.8173
11021	C10	5911	6430	SRSF5	-0.0876	0.8173
11024	D04	10153	4047	LSS	-0.0875	0.8176
11049	B08	2950	28970	C11orf54	-0.0874	0.8176
31017	G03	12716	4953	ODC1	-0.0874	0.8177
51022	H10	56062	9208	LRRFIP1	-0.0874	0.8177
51010	A05	52767	147741	ZNF560	-0.0873	0.8178
31023	D03	13655	121457	IKBIP	-0.0873	0.8179

31017	D05	12439	10730	YME1L1	-0.0872	0.8181
11029	D12	3198	51550	CINP	-0.0871	0.8183
11051	F03	6963	57048	PLSCR3	-0.0871	0.8183
11024	B08	5003	81570	CLPB	-0.0871	0.8184
31036	E08	11395	79823	C2orf34	-0.0871	0.8184
31031	H11	14482	10010	TANK	-0.0870	0.8185
11078	D05	6685	11100	HNRNPUL1	-0.0870	0.8185
11036	H01	9397	23245	ASTN2	-0.0870	0.8185
11049	A08	3792	84727	SPSB2	-0.0870	0.8185
51014	E04	52861	2158	F9	-0.0869	0.8187
11038	E07	8969	89796	NAV1	-0.0868	0.8188
11063	A12	9457	60682	SMAP1	-0.0868	0.8188
31028	H08	15051	284723	SLC25A34	-0.0867	0.8190
11042	D05	8585	84901	NFATC2IP	-0.0867	0.8190
31002	C03	10611	57135	DAZ4	-0.0867	0.8190
31016	C04	12494	64422	ATG3	-0.0866	0.8191
11006	B04	9173	117289	TAGAP	-0.0866	0.8193
51009	A06	54135	146212	KCTD19	-0.0865	0.8194
31029	G02	14294	112937	GLB1L3	-0.0864	0.8195
11037	D02	3146	1917	EEF1A2	-0.0864	0.8196
51027	G05	55406	256646	C15orf55	-0.0864	0.8196
11003	E04	5293	85004	RERG	-0.0864	0.8196
31006	A02	11112	1510	CTSE	-0.0864	0.8196
11088	D07	59	55659	ZNF416	-0.0862	0.8200
31007	D03	11102	6338	SCNN1B	-0.0861	0.8201
11025	G01	1491	55124	PIWIL2	-0.0861	0.8201
31035	E02	14956	5394	EXOSC10	-0.0860	0.8203
11084	H08	8939	4665	NAB2	-0.0860	0.8203
11039	G04	7690	80020	FOXRED2	-0.0860	0.8204
51011	B12	54338	7743	ZNF189	-0.0859	0.8205
51001	G01	55281	5937	RBMS1	-0.0859	0.8205
51015	F04	52926	203197	C9orf91	-0.0858	0.8207
11044	F05	5044	84279	C2orf7	-0.0858	0.8208
31001	E02	10267	9450	LY86	-0.0857	0.8209
11024	E02	9378	284001	CCDC57	-0.0857	0.8210
31016	D04	12694	100137047	JMJD7	-0.0856	0.8210
11042	E11	7027	4627	MYH9	-0.0856	0.8212
31021	E08	12936	11136	SLC7A9	-0.0856	0.8212
11072	B07	6244	3954	LETM1	-0.0855	0.8212
31005	B09	10998	441242	LOC441242	-0.0855	0.8213
51012	G03	54059	5596	MAPK4	-0.0854	0.8214
51009	C10	52966	84631	SLITRK2	-0.0854	0.8215
11003	A09	9906	8477	GPR65	-0.0853	0.8216
51033	D03	55669	NA	NA	-0.0853	0.8216

31029	G09	14422	124149	ANKRD26P1	-0.0853	0.8217
11025	D03	4948	2137	EXTL3	-0.0853	0.8217
31035	E01	15005	11129	SFRS16	-0.0853	0.8217
11080	F09	8232	9765	ZFYVE16	-0.0853	0.8217
11024	C12	9985	29904	EEF2K	-0.0853	0.8218
11081	G07	8098	84068	SLC10A7	-0.0852	0.8218
11060	A05	9888	6751	SSTR1	-0.0852	0.8218
31030	B03	14331	55177	FAM82A2	-0.0852	0.8219
11003	H05	8992	64689	GORASP1	-0.0852	0.8219
31012	A03	12226	84449	ZNF333	-0.0851	0.8220
11085	F05	224	6187	RPS2	-0.0851	0.8220
11084	G09	8900	23338	PHF15	-0.0851	0.8220
51003	C06	53473	117286	CIB3	-0.0851	0.8221
51002	H04	52757	283687	C15orf37	-0.0851	0.8221
11086	H02	7269	112849	C14orf149	-0.0849	0.8223
11022	C07	7775	80851	SH3BP5L	-0.0849	0.8224
11061	G08	8106	7424	VEGFC	-0.0849	0.8224
11005	G06	10242	11267	SNF8	-0.0849	0.8224
11082	C04	5526	4695	NDUFA2	-0.0849	0.8224
11049	C11	6053	23551	RASD2	-0.0849	0.8225
11030	H03	7389	11330	CTRC	-0.0848	0.8226
31011	C04	11589	124245	ZC3H18	-0.0848	0.8227
51011	B07	53813	6542	SLC7A2	-0.0847	0.8228
51020	F09	56030	440561	PRAMEF6	-0.0847	0.8228
11038	B11	4953	8532	CPZ	-0.0845	0.8232
11030	E03	3661	1534	CYB561	-0.0845	0.8232
31024	F02	13776	5194	PEX13	-0.0845	0.8232
11066	H07	6929	54681	P4HTM	-0.0844	0.8233
51029	F07	56424	389114	ZNF662	-0.0844	0.8233
11083	F09	655	7178	TPT1	-0.0844	0.8233
51035	C02	55116	6504	SLAMF1	-0.0844	0.8233
31002	G02	10279	8916	HERC3	-0.0844	0.8234
31029	A01	14427	2029	ENSA	-0.0844	0.8234
31022	D08	13484	84064	HDHD2	-0.0844	0.8235
31027	E08	14672	80740	LY6G6C	-0.0843	0.8235
11005	B09	3056	51074	APIP	-0.0843	0.8235
31032	B05	14477	57462	KIAA1161	-0.0843	0.8236
11072	H09	1438	23507	LRRC8B	-0.0843	0.8237
31042	B04	8974	84063	KIRREL2	-0.0842	0.8237
11040	H07	7810	8363	HIST1H4J	-0.0842	0.8238
31033	E11	14873	NA	NA	-0.0842	0.8238
51026	E11	53162	9112	MTA1	-0.0842	0.8238
31009	A02	11609	11104	KATNA1	-0.0842	0.8238
31022	E06	13640	NA	NA	-0.0841	0.8239

31027	H05	13948	83550	GPR101	-0.0841	0.8239
31041	D02	7662	7507	XPA	-0.0841	0.8240
31029	F10	14310	81562	LMAN2L	-0.0841	0.8240
11082	B02	1590	6168	RPL37A	-0.0841	0.8240
51020	F08	56609	65109	UPF3B	-0.0841	0.8240
31013	G08	12210	55293	UEVLD	-0.0840	0.8241
11005	A03	747	22934	RPIA	-0.0840	0.8241
11070	C05	8493	55813	UTP6	-0.0840	0.8242
11032	E05	6716	55701	FLJ10357	-0.0839	0.8243
11021	E12	7456	23564	DDAH2	-0.0839	0.8243
11041	A02	1015	122509	IFI27L1	-0.0839	0.8244
11007	G02	3258	1512	CTSH	-0.0838	0.8245
51006	A01	53667	7547	ZIC3	-0.0838	0.8246
31022	E05	13337	57151	LYZL6	-0.0838	0.8246
31031	G05	14649	3149	HMGB3	-0.0837	0.8247
11084	F02	8632	11129	SFRS16	-0.0837	0.8247
51020	B11	56414	5625	PRODH	-0.0837	0.8248
31045	A01	686	64760	FAM160B2	-0.0836	0.8249
11072	C11	8172	7738	ZNF184	-0.0836	0.8250
51020	E10	56582	208	AKT2	-0.0835	0.8251
11020	C10	7399	160287	LDHAL6A	-0.0835	0.8252
11075	H01	1168	158471	PRUNE2	-0.0834	0.8252
31041	H10	5112	84326	C16orf13	-0.0834	0.8252
31037	F11	15052	2177	FANCD2	-0.0834	0.8253
11015	D10	5449	1678	TIMM8A	-0.0833	0.8254
11029	B10	2782	22846	VASH1	-0.0833	0.8255
31002	F09	10701	133308	NHEDC2	-0.0833	0.8255
31010	B10	11570	26146	TRAF3IP1	-0.0833	0.8255
11040	H09	1459	100133171	SPANXB2	-0.0833	0.8255
11083	A05	737	8721	EDF1	-0.0832	0.8256
11039	E11	7299	201255	LRRC45	-0.0832	0.8257
51006	E07	55560	57452	GALNTL1	-0.0832	0.8257
11028	E05	6891	51659	GINS2	-0.0831	0.8259
31002	H04	10716	1974	EIF4A2	-0.0831	0.8259
31013	F12	12076	148156	ZNF558	-0.0830	0.8260
11021	F04	3182	6723	SRM	-0.0830	0.8260
31007	H09	11371	140738	TMEM37	-0.0830	0.8261
11061	D09	9247	153643	FAM81B	-0.0830	0.8261
11007	B04	7416	65008	MRPL1	-0.0829	0.8263
11054	D11	946	8560	DEGS1	-0.0828	0.8263
31005	E11	10937	153657	TTC23L	-0.0827	0.8265
11042	H05	1080	79026	AHNAK	-0.0827	0.8266
11028	A04	3009	8341	HIST1H2BN	-0.0827	0.8266
11039	G05	5510	7047	TGM4	-0.0827	0.8267

31005	D12	11301	10552	ARPC1A	-0.0827	0.8267
11064	D04	4558	5914	RARA	-0.0826	0.8268
51008	A06	53535	25962	KIAA1429	-0.0826	0.8269
11036	C07	3526	51253	MRPL37	-0.0825	0.8269
51030	G07	53278	165257	C1QL2	-0.0825	0.8270
11021	G08	4046	6017	RLBP1	-0.0825	0.8270
31041	E10	5022	144453	BEST3	-0.0824	0.8272
11048	B05	472	117177	RAB3IP	-0.0824	0.8273
31041	F12	4130	25807	RHBDD3	-0.0824	0.8273
11012	E07	2708	9776	ATG13	-0.0823	0.8274
31011	D04	11425	50485	SMARCAL1	-0.0823	0.8274
11037	H09	8462	18	ABAT	-0.0823	0.8274
11061	G09	4869	54821	ERCC6L	-0.0822	0.8275
11039	G09	1325	9498	SLC4A8	-0.0821	0.8277
51031	F04	55656	81792	ADAMTS12	-0.0821	0.8277
11042	G01	1284	5805	PTS	-0.0820	0.8279
11009	H07	393	11326	VSIG4	-0.0820	0.8279
11026	E04	8073	79856	SNX22	-0.0820	0.8280
11052	C11	786	6341	SCO1	-0.0820	0.8280
11024	H09	10095	22871	NLGN1	-0.0819	0.8281
51028	F12	56461	64106	NPFPR1	-0.0818	0.8283
51004	B02	53029	283897	C16orf54	-0.0817	0.8285
31022	F04	13312	339487	ZBTB8OS	-0.0817	0.8286
11003	E06	5405	260294	NSUN5P2	-0.0817	0.8286
11009	H01	3448	6376	CX3CL1	-0.0816	0.8288
11046	H09	6486	9709	HERPUD1	-0.0815	0.8289
31002	D04	10408	254122	SNX32	-0.0815	0.8290
11061	D02	9372	220047	CCDC83	-0.0814	0.8290
11024	B09	8497	25791	NGEF	-0.0814	0.8291
11042	G07	6404	5304	PIP	-0.0814	0.8291
11016	H08	5543	6288	SAA1	-0.0813	0.8293
51001	D07	54866	389541	C7orf59	-0.0813	0.8293
11038	B08	6200	56606	SLC2A9	-0.0812	0.8294
11026	E12	479	51082	POLR1D	-0.0812	0.8295
11020	D12	7890	NA	NA	-0.0812	0.8295
11016	C06	8867	6125	RPL5	-0.0811	0.8297
51033	A12	55099	440446	FLJ42842	-0.0810	0.8298
11020	C05	5201	7083	TK1	-0.0809	0.8300
31042	D01	4343	274	BIN1	-0.0809	0.8300
31022	C04	13356	127845	GOLT1A	-0.0809	0.8300
31040	G10	1945	9738	CP110	-0.0809	0.8300
51015	B05	53126	26532	OR10H3	-0.0809	0.8301
51001	B08	55057	149934	C20orf191	-0.0808	0.8301
51010	G06	54469	89876	C3orf15	-0.0808	0.8301

11025	E06	1980	4438	MSH4	-0.0808	0.8302
11083	F02	2138	2543	GAGE1	-0.0808	0.8302
11008	C12	6027	2771	GNAI2	-0.0808	0.8303
11016	G11	6117	91860	CALML4	-0.0808	0.8303
11088	E05	10053	8743	TNFSF10	-0.0807	0.8303
51013	H04	54868	1758	DMP1	-0.0807	0.8304
11009	A07	402	929	CD14	-0.0807	0.8304
31001	D09	10257	26298	EHF	-0.0806	0.8307
31045	E06	8478	440556	FLJ42875	-0.0806	0.8307
31031	D09	14621	65258	MPPE1	-0.0806	0.8307
31040	H09	9617	79974	C7orf58	-0.0805	0.8307
51012	A03	54409	54502	RBM47	-0.0805	0.8308
11082	D04	8782	NA	NA	-0.0805	0.8309
31044	H08	10078	9820	CUL7	-0.0804	0.8309
11020	E09	5727	55973	BCAP29	-0.0804	0.8309
31002	G10	10744	79739	TTL7	-0.0804	0.8311
11078	A09	6172	7594	ZNF43	-0.0804	0.8311
11017	D08	3687	516	ATP5G1	-0.0803	0.8311
11086	A05	6394	72	ACTG2	-0.0803	0.8311
51029	E07	55327	199953	TMEM201	-0.0803	0.8311
51015	G10	52751	2259	FGF14	-0.0803	0.8312
51012	E07	53531	8632	DNAH17	-0.0802	0.8313
11066	G04	5030	83440	ADPGK	-0.0802	0.8314
11009	C07	2775	11098	PRSS23	-0.0802	0.8314
31025	H05	13650	2034	EPAS1	-0.0802	0.8314
31002	B06	10288	5026	P2RX5	-0.0801	0.8315
11078	F08	388	10607	TBL3	-0.0801	0.8316
51015	G09	52898	135250	RAET1E	-0.0800	0.8317
31015	G02	12814	57698	KIAA1598	-0.0800	0.8317
11037	D03	3516	54758	KLHDC4	-0.0800	0.8318
51033	A10	53718	9081	PRY	-0.0799	0.8319
11009	B06	4463	81502	HM13	-0.0799	0.8319
11071	A04	9357	1737	DLAT	-0.0799	0.8319
31044	C01	5128	152217	LOC152217	-0.0799	0.8320
51005	B12	52958	65094	JMJD4	-0.0798	0.8321
51030	B04	55650	58489	FAM108C1	-0.0798	0.8321
51035	C11	54008	90649	ZNF486	-0.0798	0.8321
11070	F11	6209	10232	MSLN	-0.0798	0.8322
51031	E10	53354	388649	C1orf146	-0.0797	0.8323
11049	E02	87	53836	GPR87	-0.0796	0.8325
51021	C04	56203	92822	ZNF276	-0.0796	0.8325
31042	F05	6121	924	CD7	-0.0796	0.8326
51017	G06	55822	1044	CDX1	-0.0795	0.8326
31031	G01	14455	146057	TTBK2	-0.0795	0.8326

11066	E08	9525	23533	PIK3R5	-0.0794	0.8328
11016	F07	5811	154791	C7orf55	-0.0794	0.8329
11025	F06	9924	22795	NID2	-0.0794	0.8329
11048	C06	9125	4719	NDUFS1	-0.0793	0.8331
11066	H05	3076	22827	PUF60	-0.0793	0.8332
11040	H04	8481	147991	DPY19L3	-0.0793	0.8332
31043	E05	6634	64789	DEM1	-0.0792	0.8332
11049	A09	4173	79169	C1orf35	-0.0792	0.8334
31008	H06	11336	341032	C11orf53	-0.0791	0.8334
11059	F06	6956	55224	ETNK2	-0.0791	0.8335
11024	B03	4532	9289	GPR56	-0.0791	0.8335
11017	H01	9152	5612	PRKRIR	-0.0791	0.8336
11042	D10	1147	5217	PFN2	-0.0790	0.8336
11089	G04	2753	26007	DAK	-0.0790	0.8337
51015	F07	52878	333929	SNAI3	-0.0789	0.8339
51025	A12	53341	5586	PKN2	-0.0789	0.8339
11043	B03	7092	339047	LOC339047	-0.0789	0.8339
31034	F06	14901	27197	GPR82	-0.0789	0.8339
11026	F09	1501	128229	C1orf182	-0.0788	0.8341
11007	B11	9921	149473	CCDC24	-0.0788	0.8341
31001	H08	10754	55268	ECHDC2	-0.0788	0.8341
31044	F07	10093	2648	KAT2A	-0.0788	0.8342
11080	H04	4142	51347	TAOK3	-0.0787	0.8342
51011	D03	53124	1763	DNA2	-0.0787	0.8342
51006	B02	55533	5296	PIK3R2	-0.0787	0.8342
11037	H10	9413	22807	IKZF2	-0.0787	0.8343
51014	A10	52804	285231	FBXW12	-0.0786	0.8344
11041	D03	8034	8099	CDK2AP1	-0.0786	0.8344
31002	H05	10650	57162	PELI1	-0.0786	0.8344
11014	E01	3011	4779	NFE2L1	-0.0786	0.8345
11086	B08	1248	115399	LRRC56	-0.0785	0.8346
11064	E11	3782	4086	SMAD1	-0.0785	0.8346
11006	B05	8047	127534	GJB4	-0.0785	0.8346
31023	E09	13487	NA	NA	-0.0785	0.8346
51014	H08	52937	286827	TRIM59	-0.0785	0.8347
31038	H06	14614	27133	KCNH5	-0.0785	0.8347
11024	A04	3579	23645	PPP1R15A	-0.0785	0.8347
31030	D12	14243	3980	LIG3	-0.0784	0.8348
31039	B05	3104	50486	G0S2	-0.0784	0.8348
51028	D10	53339	3188	HNRNPH2	-0.0784	0.8348
11078	E06	7587	2908	NR3C1	-0.0784	0.8349
11065	A07	1557	6782	HSPA13	-0.0784	0.8349
11012	C12	2966	5129	CDK18	-0.0783	0.8349
51023	C02	55735	51111	SUV420H1	-0.0783	0.8351

11059	B06	9936	8705	B3GALT4	-0.0782	0.8352
31034	H04	14902	57730	ANKRD36B	-0.0781	0.8354
11030	H02	7102	155435	RBM33	-0.0781	0.8354
51013	H08	55074	3990	LIPC	-0.0780	0.8356
11025	F09	6004	115752	DIS3L	-0.0779	0.8358
31005	G05	11094	3300	DNAJB2	-0.0779	0.8359
11063	B04	1274	4974	OMG	-0.0778	0.8360
11055	C12	4668	8446	DUSP11	-0.0778	0.8360
11070	F09	10121	11226	GALNT6	-0.0778	0.8360
31031	D01	14242	667	DST	-0.0777	0.8361
11039	A09	1412	84076	TKTL2	-0.0777	0.8363
31045	H05	8050	404203	SPINK6	-0.0776	0.8363
51024	D06	56350	26130	GAPVD1	-0.0775	0.8365
11061	D07	2339	7528	YY1	-0.0775	0.8365
11080	D08	9553	1281	COL3A1	-0.0775	0.8366
11046	F08	8706	64799	IQCH	-0.0775	0.8366
11038	C02	3714	27301	APEX2	-0.0775	0.8366
11080	G01	3600	22974	TPX2	-0.0774	0.8367
51006	C08	54839	8526	DGKE	-0.0774	0.8367
51029	E05	56922	63027	SLC22A23	-0.0774	0.8368
11020	H05	5566	3263	HPX	-0.0774	0.8368
11077	H02	992	1200	TPP1	-0.0774	0.8368
11067	E02	7087	23532	PRAME	-0.0773	0.8369
31041	A03	7293	389119	C3orf54	-0.0773	0.8369
31029	D03	14434	201965	RWDD4A	-0.0773	0.8370
11071	C04	164	30011	SH3KBP1	-0.0772	0.8372
11001	D03	8622	56940	DUSP22	-0.0771	0.8373
11084	G11	7335	55840	EAF2	-0.0771	0.8374
51012	D08	54392	114571	SLC22A9	-0.0770	0.8375
31010	C02	11464	7589	ZSCAN21	-0.0770	0.8376
11082	G02	2485	29931	LOH3CR2A	-0.0770	0.8376
31009	B06	11370	64091	POPDC2	-0.0769	0.8377
51029	E09	53180	9584	RBM39	-0.0769	0.8378
31039	F11	3877	9898	UBAP2L	-0.0768	0.8378
11087	E01	3255	6050	RNH1	-0.0768	0.8378
31045	D03	4359	7511	XPNPEP1	-0.0768	0.8379
11062	B06	4785	10617	STAMBP	-0.0768	0.8379
31006	B10	11053	8881	CDC16	-0.0768	0.8380
11038	A12	5412	80185	C8orf41	-0.0767	0.8380
11028	G04	1433	7447	VSNL1	-0.0767	0.8381
11086	D01	1981	4115	MAGEB4	-0.0767	0.8381
11005	C07	227	51389	RWDD1	-0.0766	0.8383
31033	H06	14988	114041	C21orf88	-0.0765	0.8385
31036	C03	11780	8353	HIST1H3E	-0.0765	0.8386

51033	E06	53745	NA	NA	-0.0764	0.8387
11019	H01	7795	9274	BCL7C	-0.0764	0.8387
11045	G01	606	140465	MYL6B	-0.0763	0.8388
51005	F11	54587	1613	DAPK3	-0.0763	0.8388
11047	B04	8128	7652	ZNF99	-0.0763	0.8388
11001	B04	2817	NA	NA	-0.0763	0.8389
51017	B06	55999	92129	RIPPLY1	-0.0763	0.8389
11001	H09	1800	51660	BRP44L	-0.0762	0.8390
31014	A11	11866	7535	ZAP70	-0.0762	0.8391
51032	B03	56593	56918	C2orf83	-0.0762	0.8391
51006	C12	54119	3818	KLKB1	-0.0761	0.8392
31007	G05	11050	55249	YY1AP1	-0.0761	0.8392
11009	D02	3107	25852	ARMC8	-0.0761	0.8392
31007	C05	10869	1836	SLC26A2	-0.0761	0.8393
51006	A06	55588	10768	AHCYL1	-0.0760	0.8394
51021	C09	56620	56938	ARNTL2	-0.0760	0.8394
11029	B11	3282	65989	DLK2	-0.0760	0.8395
11060	C03	5329	7756	ZNF207	-0.0760	0.8395
11028	D06	7999	28985	MCTS1	-0.0759	0.8396
31027	E04	14009	1142	CHRNA3	-0.0759	0.8396
31038	H08	5262	84329	HVCN1	-0.0759	0.8396
51018	G10	55998	54508	FLJ11235	-0.0759	0.8397
11082	B01	7057	56901	NDUFA4L2	-0.0758	0.8398
11068	E09	778	23633	KPNA6	-0.0758	0.8398
11081	F05	93	85027	C5orf62	-0.0758	0.8398
11029	E05	5149	8894	EIF2S2	-0.0758	0.8398
31042	D04	5137	93611	FBXO44	-0.0758	0.8398
11083	B11	2690	51651	PTRH2	-0.0757	0.8401
51010	F12	55030	29966	STRN3	-0.0756	0.8402
11059	H04	10087	23387	SIK3	-0.0756	0.8403
11088	A12	3080	831	CAST	-0.0756	0.8403
31015	H11	12759	54932	EXD3	-0.0756	0.8403
11035	G04	1364	8027	STAM	-0.0755	0.8404
11075	C06	8699	117155	CATSPER2	-0.0755	0.8404
11030	C08	3363	10898	CPSF4	-0.0754	0.8407
51032	G09	55649	83699	SH3BGRL2	-0.0754	0.8407
31038	E12	7697	54869	EPS8L1	-0.0753	0.8408
31005	G02	10975	256227	MGC87042	-0.0753	0.8408
31039	B04	572	4501	MT1X	-0.0753	0.8408
11079	D10	4203	5979	RET	-0.0753	0.8408
11066	E04	7147	2202	EFEMP1	-0.0753	0.8409
11005	D09	456	51107	APH1A	-0.0753	0.8409
31002	H11	10568	84460	ZMAT1	-0.0752	0.8411
11077	G07	200	329	BIRC2	-0.0751	0.8412

31001	E11	10775	55283	MCOLN3	-0.0751	0.8412
31032	C07	14723	2879	GPX4	-0.0751	0.8412
11085	B02	8845	25802	LMOD1	-0.0751	0.8412
51020	A08	55838	117154	DACH2	-0.0751	0.8413
51015	F09	53017	11185	INMT	-0.0751	0.8413
31042	F07	5714	10136	CELA3A	-0.0751	0.8413
11032	C07	7862	1849	DUSP7	-0.0750	0.8414
11075	A11	5512	10393	ANAPC10	-0.0749	0.8415
51024	H06	55192	9353	SLIT2	-0.0749	0.8415
51004	H10	53990	8600	TNFSF11	-0.0749	0.8416
11024	E12	10043	55074	OXR1	-0.0749	0.8416
51030	G10	55418	55687	TRMU	-0.0749	0.8416
11071	A02	9069	29994	BAZ2B	-0.0749	0.8416
31041	F11	4034	8566	PDXK	-0.0749	0.8416
51002	F05	52845	80350	LPAL2	-0.0748	0.8418
11054	F10	4504	11199	ANXA10	-0.0748	0.8418
11070	D01	9348	55672	NBPF1	-0.0748	0.8418
31044	E03	3773	3588	IL10RB	-0.0748	0.8419
31045	C04	7592	9961	MVP	-0.0748	0.8419
51002	F03	54606	246744	STH	-0.0747	0.8419
31010	C09	11525	6814	STXBP3	-0.0747	0.8420
11041	G02	8864	112398	EGLN2	-0.0746	0.8421
31036	D03	11148	284129	SLC26A11	-0.0746	0.8421
31041	G06	7673	27158	NDOR1	-0.0746	0.8422
11062	H05	1324	8910	SGCE	-0.0746	0.8422
11025	E09	4761	163	AP2B1	-0.0745	0.8423
11062	H07	4372	123	PLIN2	-0.0745	0.8423
51032	A03	56771	51716	CES4	-0.0745	0.8424
51031	C10	55582	338328	GPIHBP1	-0.0745	0.8424
31024	B05	13392	7086	TKT	-0.0745	0.8424
11012	H07	7996	6729	SRP54	-0.0744	0.8425
31021	G05	13306	3827	KNG1	-0.0744	0.8426
11048	E01	1765	55529	TMEM55A	-0.0743	0.8427
31024	F03	13559	3782	KCNN3	-0.0743	0.8428
11029	E02	4080	3006	HIST1H1C	-0.0743	0.8428
51033	C12	53483	26236	C6orf54	-0.0742	0.8429
31012	H02	12341	10330	CNPY2	-0.0742	0.8429
51023	D04	55888	8646	CHRD	-0.0742	0.8429
11042	B09	5483	2170	FABP3	-0.0742	0.8429
11024	H10	9841	84075	FSCB	-0.0742	0.8430
31043	C03	7141	57215	THAP11	-0.0742	0.8430
31014	A07	12109	1586	CYP17A1	-0.0741	0.8431
51034	B02	54982	401296	LOC401296	-0.0741	0.8431
51028	C10	55665	253012	HEPACAM2	-0.0741	0.8432

31025	B12	13812	117286	CIB3	-0.0740	0.8433
11084	G10	8956	9112	MTA1	-0.0740	0.8433
31045	C01	110	9638	FEZ1	-0.0740	0.8434
31027	G08	15034	407738	FAM19A1	-0.0739	0.8435
11022	G04	3986	5498	PPOX	-0.0739	0.8435
51001	D08	54854	388815	C21orf34	-0.0739	0.8436
11029	G02	4220	79269	DCAF10	-0.0739	0.8436
11064	B11	4779	10629	TAF6L	-0.0739	0.8436
51004	F10	54693	26493	OR8B8	-0.0739	0.8436
11029	A04	552	10534	SSSCA1	-0.0738	0.8437
31021	C07	13140	27286	SRPX2	-0.0738	0.8437
11035	E07	6831	1797	DOM3Z	-0.0738	0.8437
11038	C09	5206	55697	VAC14	-0.0737	0.8439
11039	A11	7873	9149	DYRK1B	-0.0737	0.8439
51001	E07	52603	404201	NCRNA00247	-0.0737	0.8439
31044	B05	4976	9830	TRIM14	-0.0737	0.8439
51012	E12	53767	10576	CCT2	-0.0737	0.8439
31025	E09	14011	1671	DEFA6	-0.0737	0.8440
11088	C02	5734	7076	TIMP1	-0.0736	0.8441
31040	F06	9714	146880	LOC146880	-0.0736	0.8442
11038	C04	3319	78995	C17orf53	-0.0736	0.8442
51029	F12	55309	10159	ATP6AP2	-0.0735	0.8443
11014	H04	1798	25788	RAD54B	-0.0735	0.8444
11029	B12	4631	533	ATP6V0B	-0.0734	0.8445
11062	B08	478	11074	TRIM31	-0.0734	0.8446
31027	E10	15057	11066	SNRNP35	-0.0733	0.8446
51005	G06	54326	1896	EDA	-0.0732	0.8448
11040	A12	2297	133874	C5orf58	-0.0732	0.8449
11035	A02	7071	11116	FGFR1OP	-0.0732	0.8449
11069	A09	3046	79623	GALNT14	-0.0732	0.8449
11020	B04	5655	3422	IDI1	-0.0732	0.8449
51002	C12	55042	399900	LOC399900	-0.0732	0.8449
31004	H02	10725	64799	IQCH	-0.0731	0.8451
51005	H05	55259	8537	BCAS1	-0.0731	0.8452
31013	F11	12340	8869	ST3GAL5	-0.0730	0.8452
11028	G07	8642	85313	PPIL4	-0.0730	0.8453
31018	H11	13076	27306	HPGDS	-0.0730	0.8453
51020	B08	56408	6870	TACR3	-0.0730	0.8453
11020	D07	7916	79810	PTCD2	-0.0730	0.8453
11075	D05	4895	57379	AICDA	-0.0730	0.8453
51008	G05	53585	1310	COL19A1	-0.0730	0.8453
11040	C07	7290	84525	HOPX	-0.0729	0.8454
11078	H03	6479	8453	CUL2	-0.0729	0.8454
11038	E06	6251	8208	CHAF1B	-0.0729	0.8454

31001	A02	10457	219990	PLAC1L	-0.0729	0.8455
11072	A06	3760	8314	BAP1	-0.0729	0.8455
11012	F08	6179	58491	ZNF71	-0.0729	0.8456
11036	F12	8236	54905	CYP2W1	-0.0728	0.8457
11089	A04	1410	66036	MTMR9	-0.0728	0.8457
11012	C11	2992	7071	KLF10	-0.0728	0.8457
51029	C04	56467	93492	TPTE2	-0.0728	0.8457
11044	F11	399	998	CDC42	-0.0727	0.8459
31030	C11	14450	55086	CXorf57	-0.0726	0.8460
11038	H08	1293	7857	SCG2	-0.0726	0.8460
11054	G04	6515	60526	C2orf43	-0.0726	0.8460
31001	H11	10751	112817	DHDPSL	-0.0726	0.8461
11062	B07	5488	55032	SLC35A5	-0.0726	0.8461
11021	H02	7469	55658	RNF126	-0.0725	0.8462
11072	F12	9345	283987	C17orf28	-0.0725	0.8462
31032	F09	14705	2620	GAS2	-0.0725	0.8463
31026	G07	13893	135656	DPCR1	-0.0724	0.8464
31023	F02	13403	51015	ISOC1	-0.0724	0.8464
51008	B04	54245	1730	DIAPH2	-0.0724	0.8464
51025	C07	56300	4299	AFF1	-0.0724	0.8464
11069	C10	6804	51477	ISYNA1	-0.0724	0.8465
11041	B05	8936	10397	NDRG1	-0.0724	0.8465
11055	H06	7578	27348	TOR1B	-0.0724	0.8465
51005	D04	55114	645121	CCNI2	-0.0723	0.8467
51029	D06	55638	3880	KRT19	-0.0723	0.8467
11079	G01	2109	11183	MAP4K5	-0.0723	0.8467
11063	F07	4136	79157	MFSD11	-0.0722	0.8469
31014	F11	11907	4281	MID1	-0.0722	0.8469
51033	A06	53928	337971	KRTAP19-4	-0.0721	0.8470
11008	D03	2866	4760	NEUROD1	-0.0721	0.8471
11087	B06	7867	1435	CSF1	-0.0721	0.8471
31006	B04	10853	122809	SOCS4	-0.0721	0.8471
11020	E10	5643	339175	METTL2A	-0.0720	0.8471
11040	C10	4243	84734	FAM167B	-0.0720	0.8472
11009	G02	6551	81628	TSC22D4	-0.0720	0.8472
31004	C01	10418	27072	VPS41	-0.0720	0.8472
31025	F04	13572	6405	SEMA3F	-0.0720	0.8472
31024	B12	13444	9159	PCSK7	-0.0720	0.8472
51022	H02	56184	933	CD22	-0.0720	0.8473
51025	A07	56892	26030	PLEKHG3	-0.0720	0.8473
11050	D09	5887	55156	ARMC1	-0.0719	0.8474
51016	C08	56001	203547	VMA21	-0.0719	0.8474
11040	B12	5831	5441	POLR2L	-0.0719	0.8475
11020	D06	5495	NA	NA	-0.0718	0.8475

11039	B11	5242	7571	ZNF23	-0.0718	0.8476
11029	F02	1183	85437	ZCRB1	-0.0718	0.8476
51006	F07	54103	116154	PHACTR3	-0.0718	0.8476
31002	B10	10770	57711	ZNF529	-0.0718	0.8477
11073	D12	2477	149111	CNIH3	-0.0718	0.8477
31016	H09	12686	23543	RBM9	-0.0717	0.8478
11084	E02	8396	51303	FKBP11	-0.0717	0.8478
11016	F09	5401	84856	LOC84856	-0.0717	0.8478
11085	H04	6075	8624	PSMG1	-0.0717	0.8478
31017	E08	13271	554203	NCRNA00183	-0.0717	0.8479
31016	F09	12629	56895	AGPAT4	-0.0717	0.8479
51011	G09	52921	9641	IKBKE	-0.0717	0.8479
11030	G05	9490	197259	MLKL	-0.0716	0.8480
51033	D12	53816	7873	MANF	-0.0716	0.8480
31019	D02	13122	26147	PHF19	-0.0715	0.8482
51020	E05	56587	79634	SCRN3	-0.0714	0.8484
31025	D03	13732	120	ADD3	-0.0714	0.8484
51029	C10	55397	142910	LIPJ	-0.0714	0.8484
31005	D07	11286	84142	FAM175A	-0.0714	0.8485
11065	A10	3890	4841	NONO	-0.0714	0.8485
51034	D11	53618	441362	REXO1L6P	-0.0713	0.8486
11043	A04	5645	2993	GYPA	-0.0713	0.8486
11083	H10	2626	55179	FAIM	-0.0712	0.8487
31009	E09	11725	51176	LEF1	-0.0712	0.8488
11004	H09	716	94081	SFXN1	-0.0711	0.8489
11082	C11	8476	222171	PRR15	-0.0711	0.8490
11021	A05	5738	9125	RQCD1	-0.0711	0.8490
31043	G02	7717	6818	SULT1A3	-0.0711	0.8490
11008	F07	3416	1801	DPH1	-0.0711	0.8491
51026	G01	55393	9990	SLC12A6	-0.0710	0.8491
11058	A11	3548	51114	ZDHHC9	-0.0710	0.8491
11066	F01	483	26503	SLC17A5	-0.0710	0.8491
11039	C02	5877	55734	ZFP64	-0.0710	0.8492
31020	C04	12831	6128	RPL6	-0.0710	0.8492
31033	D03	14684	55738	ARFGAP1	-0.0710	0.8492
31004	D03	10563	138724	C9orf131	-0.0710	0.8493
11069	A02	6042	114088	TRIM9	-0.0709	0.8493
11084	E07	9907	5611	DNAJC3	-0.0709	0.8494
11069	H10	7036	9567	GTPBP1	-0.0709	0.8495
31016	G11	12508	898	CCNE1	-0.0708	0.8495
31040	F07	9748	126823	KLHDC9	-0.0708	0.8496
51009	A04	53093	1821	DRP2	-0.0708	0.8496
31032	A10	14706	11137	PWP1	-0.0708	0.8496
11039	G07	8065	6733	SRPK2	-0.0708	0.8496

11025	D08	2099	222546	RFX6	-0.0707	0.8497
51031	G11	53316	439921	MXRA7	-0.0707	0.8498
11050	H09	2599	80224	NUBPL	-0.0706	0.8499
11009	D03	3647	10296	MAEA	-0.0706	0.8499
11085	E04	7226	51300	C3orf1	-0.0706	0.8500
11078	A08	2424	988	CDC5L	-0.0706	0.8500
11080	B06	2444	1663	DDX11	-0.0706	0.8500
11079	F01	2533	5834	PYGB	-0.0706	0.8500
31036	B07	12054	54880	BCOR	-0.0706	0.8500
51034	A04	55086	5873	RAB27A	-0.0706	0.8500
51029	C08	55499	5161	PDHA2	-0.0705	0.8501
31027	C04	13916	3762	KCNJ5	-0.0705	0.8502
31036	H04	11104	5998	RGS3	-0.0704	0.8503
31024	G04	13622	8463	TEAD2	-0.0704	0.8503
31013	B09	12002	84722	PSRC1	-0.0704	0.8503
31013	C03	12144	84868	HAVCR2	-0.0704	0.8504
11002	E03	5685	55967	NDUFA12	-0.0704	0.8504
51029	G09	11727	6767	ST13	-0.0703	0.8505
51001	B07	54771	149018	LELP1	-0.0703	0.8505
11028	C01	9762	25836	NIPBL	-0.0702	0.8507
31037	D08	15058	81602	CDADC1	-0.0702	0.8508
31006	C09	10845	8462	KLF11	-0.0702	0.8508
31019	D04	13043	5680	PSG11	-0.0701	0.8509
51003	C09	52624	1945	EFNA4	-0.0701	0.8510
51006	B07	54355	253738	EBF3	-0.0701	0.8510
11039	D07	1773	162333	MARCH10	-0.0701	0.8510
11064	D02	7250	64374	SIL1	-0.0700	0.8510
51013	G08	54082	26121	PRPF31	-0.0700	0.8511
11067	E05	6514	81607	PVRL4	-0.0700	0.8511
11055	E02	4194	11118	BTN3A2	-0.0700	0.8511
11056	C10	8123	203427	SLC25A43	-0.0700	0.8512
11040	B03	8336	26238	C6orf123	-0.0700	0.8512
51020	G01	55799	5273	SERPINB10	-0.0699	0.8513
31045	F09	4007	2521	FUS	-0.0699	0.8513
11079	H05	2510	9138	ARHGEF1	-0.0699	0.8514
31042	G06	6619	112724	RDH13	-0.0699	0.8514
31026	B06	13820	2668	GDNF	-0.0698	0.8515
11024	D03	9723	54970	TTC12	-0.0698	0.8515
31044	E05	4177	6663	SOX10	-0.0698	0.8516
51022	H08	56199	9724	UTP14C	-0.0697	0.8517
11012	B06	264	84864	MINA	-0.0697	0.8517
51001	G05	54394	337882	KRTAP19-1	-0.0697	0.8517
31018	E05	13064	10268	RAMP3	-0.0697	0.8517
51011	H04	53579	55857	PLK1S1	-0.0696	0.8519

11028	H03	1700	84569	LYZL1	-0.0696	0.8519
11070	C12	8489	84190	C12orf26	-0.0695	0.8520
11044	E03	425	140739	UBE2F	-0.0695	0.8521
11019	G09	3451	10229	COQ7	-0.0695	0.8521
31022	A05	13314	3049	HBQ1	-0.0695	0.8521
51020	G03	55844	3632	INPP5A	-0.0695	0.8521
31042	C07	7012	3248	HPGD	-0.0692	0.8526
11044	F10	8743	9054	NFS1	-0.0692	0.8527
51031	H08	55370	285498	RNF212	-0.0691	0.8529
11057	G10	2848	55771	PRR11	-0.0691	0.8529
11069	E08	4828	8318	CDC45	-0.0691	0.8529
11004	F10	5394	60343	FAM3A	-0.0690	0.8530
51030	H09	56910	400793	C1orf226	-0.0690	0.8530
11048	B11	9595	1535	CYBA	-0.0690	0.8532
31032	E03	14580	3554	IL1R1	-0.0689	0.8533
51004	G02	53000	9941	EXOG	-0.0688	0.8534
11027	H10	3192	1026	CDKN1A	-0.0688	0.8534
31028	C03	15030	5662	PSD	-0.0688	0.8535
51003	A01	52641	145858	C15orf32	-0.0688	0.8535
51009	B03	53044	9851	KIAA0753	-0.0688	0.8536
11079	C02	1302	55231	CCDC87	-0.0687	0.8536
11036	B08	3154	8517	IKBKG	-0.0687	0.8536
51006	A12	53440	22864	R3HDM2	-0.0687	0.8536
11080	C10	3493	9785	DHX38	-0.0687	0.8536
11042	D06	7194	3535	IGL@	-0.0687	0.8536
11082	D05	6274	26515	FXC1	-0.0687	0.8537
11039	F05	6058	10165	SLC25A13	-0.0687	0.8537
11039	H11	5892	83746	L3MBTL2	-0.0687	0.8537
11021	B01	3710	10954	PDIA5	-0.0687	0.8538
31003	H03	10317	2861	GPR37	-0.0686	0.8538
11025	A01	9984	23064	SETX	-0.0686	0.8538
11045	C07	7876	114971	PTPMT1	-0.0686	0.8539
51005	D02	54720	3626	INHBC	-0.0686	0.8539
11070	F10	10156	80304	C2orf44	-0.0686	0.8539
11078	E12	6760	4439	MSH5	-0.0686	0.8539
51014	H03	52820	10917	BTNL3	-0.0686	0.8539
11003	E03	5486	5052	PRDX1	-0.0686	0.8540
31018	E01	12894	10791	VAMP5	-0.0686	0.8540
31039	F09	436	10553	HTATIP2	-0.0685	0.8540
31018	C07	12872	5558	PRIM2	-0.0684	0.8542
31045	G04	6814	29894	CPSF1	-0.0683	0.8544
51025	B10	53249	5293	PIK3CD	-0.0683	0.8544
31027	G10	14683	27434	POLM	-0.0683	0.8544
11073	H01	8913	60343	FAM3A	-0.0683	0.8544

11036	H09	3357	7280	TUBB2A	-0.0683	0.8545
11051	E10	3067	93129	ORAI3	-0.0683	0.8546
31012	D09	12288	NA	NA	-0.0683	0.8546
11082	F07	8681	199704	ZNF585A	-0.0682	0.8546
11046	D04	9264	9491	PSMF1	-0.0682	0.8546
11072	F01	298	84340	GFM2	-0.0682	0.8546
11052	A12	932	10428	CFDP1	-0.0682	0.8547
51010	G07	52841	55243	KIRREL	-0.0682	0.8547
31027	D07	13986	85366	MYLK2	-0.0682	0.8547
31005	C12	11125	60677	CELF6	-0.0682	0.8547
11041	G04	5129	84316	LSMD1	-0.0682	0.8547
51011	D07	53107	9175	MAP3K13	-0.0682	0.8547
31001	E03	10504	51239	ANKRD39	-0.0681	0.8548
11025	D11	4573	8241	RBM10	-0.0681	0.8549
51015	G02	52706	94097	SFXN5	-0.0681	0.8550
31037	H07	14346	286122	C8orf31	-0.0680	0.8551
51027	D03	56652	5212	VIT	-0.0680	0.8551
31004	D06	11037	114932	MRFAP1L1	-0.0680	0.8551
11021	G05	3181	4108	MAGEA9	-0.0679	0.8552
11034	E06	2146	1996	ELAVL4	-0.0679	0.8553
11082	H04	9089	26140	TTLL3	-0.0678	0.8554
11048	G10	580	8417	STX7	-0.0678	0.8555
11049	C10	8439	6955	TRA@	-0.0677	0.8556
51020	A01	56145	3767	KCNJ11	-0.0677	0.8556
11069	F10	9435	221786	FAM200A	-0.0676	0.8558
11042	E12	1902	255758	TCTEX1D2	-0.0676	0.8559
11001	G01	629	98	ACYP2	-0.0676	0.8559
11052	G11	1937	132851	SPATA4	-0.0676	0.8559
31039	B02	7454	10072	DPP3	-0.0675	0.8560
31022	G08	13320	7428	VHL	-0.0675	0.8560
31041	B12	4314	653145	ANXA8	-0.0675	0.8560
51020	D08	56781	157724	SLC7A13	-0.0675	0.8560
31005	C06	10981	4747	NEFL	-0.0675	0.8561
51032	F12	56944	644186	C22orf41	-0.0675	0.8561
51021	D04	56051	201176	ARHGAP27	-0.0675	0.8561
11084	A06	3313	79004	CUEDC2	-0.0674	0.8562
11026	H09	2707	10410	IFITM3	-0.0674	0.8563
31030	D05	14203	57205	ATP10D	-0.0674	0.8563
11078	E04	2098	80258	EFHC2	-0.0673	0.8564
51006	A05	53523	285676	ZNF454	-0.0673	0.8564
11078	D07	6612	7409	VAV1	-0.0672	0.8566
11086	A08	5497	23071	ERP44	-0.0672	0.8567
31017	A10	12890	9939	RBM8A	-0.0672	0.8567
51004	D10	54225	2859	GPR35	-0.0671	0.8568

11049	A05	2371	6192	RPS4Y1	-0.0671	0.8568
31019	A07	12948	10864	SLC22A7	-0.0671	0.8569
11041	F02	5006	1979	EIF4EBP2	-0.0670	0.8570
31045	D02	671	3340	NDST1	-0.0670	0.8571
51029	A10	55430	29118	DDX25	-0.0669	0.8572
11046	E10	1607	54937	SOHLH2	-0.0669	0.8573
51031	G02	55445	284618	C1orf104	-0.0668	0.8574
11065	C12	1159	147837	ZNF563	-0.0668	0.8574
31003	C04	10582	28965	SLC27A6	-0.0668	0.8574
31024	D05	13504	116841	SNAP47	-0.0668	0.8574
51013	E07	54463	147700	KLC3	-0.0668	0.8574
11062	E03	2810	655	BMP7	-0.0668	0.8574
11025	D10	1950	54881	TEX10	-0.0667	0.8576
11088	A02	4724	27352	SGSM3	-0.0667	0.8576
51003	F07	53744	140258	KRTAP13-1	-0.0667	0.8577
51031	C12	56702	5554	PRH1	-0.0667	0.8577
51030	C10	55280	55096	EBLN2	-0.0666	0.8577
31033	A03	14742	9639	ARHGEF10	-0.0666	0.8579
51013	H05	53049	7626	ZNF75D	-0.0666	0.8579
11079	H06	5874	4077	NBR1	-0.0665	0.8580
11080	B01	4496	60509	AGBL5	-0.0665	0.8580
31036	A03	10366	9884	LRRC37A	-0.0665	0.8580
31033	B08	14917	10632	ATP5L	-0.0665	0.8581
51003	C12	53898	25824	PRDX5	-0.0665	0.8581
31007	H03	11196	64137	ABCG4	-0.0664	0.8581
11043	E09	5779	5478	PPIA	-0.0664	0.8582
51027	F04	56860	57573	ZNF471	-0.0664	0.8582
51004	A08	56152	55819	RNF130	-0.0664	0.8582
31030	C04	14183	22872	SEC31A	-0.0664	0.8583
11003	A06	9913	201266	SLC39A11	-0.0664	0.8583
11080	A01	6795	80222	TARS2	-0.0663	0.8583
11012	A03	4801	6050	RNH1	-0.0663	0.8584
51014	E01	54740	2569	GABRR1	-0.0663	0.8585
11017	A04	3871	6230	RPS25	-0.0663	0.8585
31043	H06	6338	1359	CPA3	-0.0663	0.8585
11084	C02	7244	30833	NT5C	-0.0662	0.8586
11070	G11	3037	5830	PEX5	-0.0662	0.8586
11086	A04	1366	130951	C2orf65	-0.0662	0.8586
11087	D08	1871	81544	GDPD5	-0.0661	0.8587
51005	C07	53416	23245	ASTN2	-0.0660	0.8589
11078	E01	1473	57633	LRRN1	-0.0660	0.8589
31018	D01	13046	1081	CGA	-0.0660	0.8590
31016	A01	12776	64960	MRPS15	-0.0660	0.8591
31037	G08	14404	145946	SPATA8	-0.0660	0.8591

11047	H07	1712	11012	KLK11	-0.0660	0.8591
11046	B01	1968	79817	MOBKL2B	-0.0659	0.8592
51010	D11	54273	286148	DPY19L4	-0.0659	0.8592
11030	G03	3156	5111	PCNA	-0.0659	0.8592
11081	E04	2165	NA	NA	-0.0659	0.8592
51015	D05	52888	57484	RNF150	-0.0658	0.8594
11081	H07	8138	55478	PRO2012	-0.0658	0.8594
11030	E08	3247	10099	TSPAN3	-0.0658	0.8595
31012	B10	12302	64288	ZNF323	-0.0657	0.8595
11028	F09	6438	4711	NDUFB5	-0.0657	0.8596
11007	F11	3483	2992	GYG1	-0.0657	0.8597
11037	E06	6922	65078	RTN4R	-0.0656	0.8598
11041	F01	2133	119369	NUDT9P1	-0.0656	0.8599
31040	A10	8313	5313	PKLR	-0.0655	0.8599
51033	F03	56455	NA	NA	-0.0655	0.8600
11012	H08	3649	51493	C22orf28	-0.0655	0.8600
11021	E02	5996	10555	AGPAT2	-0.0655	0.8601
11009	G08	2692	3301	DNAJA1	-0.0655	0.8601
11028	G02	666	1317	SLC31A1	-0.0654	0.8601
31001	D04	10488	8738	CRADD	-0.0654	0.8601
31018	D10	13285	NA	NA	-0.0654	0.8602
11061	G02	3813	80199	FUZ	-0.0654	0.8603
11059	A01	8789	51290	ERGIC2	-0.0654	0.8603
11028	D11	3553	252839	TMEM9	-0.0653	0.8603
11047	D03	3747	7462	LAT2	-0.0653	0.8603
51013	B07	52916	4303	FOXO4	-0.0653	0.8604
11007	F10	3996	8894	EIF2S2	-0.0653	0.8604
11003	D04	5637	6759	SSX4	-0.0652	0.8605
11007	E03	4172	7965	AIMP2	-0.0651	0.8608
11072	C03	8198	131566	DCBLD2	-0.0651	0.8608
11040	D06	4920	1163	CKS1B	-0.0650	0.8609
11014	B12	3105	3703	STT3A	-0.0650	0.8611
11061	B05	751	79716	NPEPL1	-0.0650	0.8611
51005	F09	53642	28983	TMPRSS11E	-0.0650	0.8611
31020	D01	13127	7993	UBXN8	-0.0650	0.8611
11059	A09	6720	4704	NDUFA9	-0.0649	0.8611
31040	G07	9456	64926	RASAL3	-0.0649	0.8612
11061	A06	8225	64798	DEPDC6	-0.0649	0.8612
31042	B08	6406	11155	LDB3	-0.0649	0.8613
31036	B04	11136	114879	OSBPL5	-0.0649	0.8613
11081	H05	9150	85480	TSLP	-0.0649	0.8613
31006	E06	11177	83594	NUDT12	-0.0648	0.8614
31020	F07	12986	8630	HSD17B6	-0.0647	0.8616
11043	B04	5492	94101	ORMDL1	-0.0647	0.8616

11075	D08	1202	9308	CD83	-0.0646	0.8617
31040	H02	2337	114826	SMYD4	-0.0646	0.8617
51030	B10	55679	NA	NA	-0.0646	0.8618
11021	H08	4710	5571	PRKAG1	-0.0646	0.8618
11051	H05	6196	23475	QPRT	-0.0645	0.8619
31019	B08	13108	51338	MS4A4A	-0.0645	0.8619
31043	H04	7488	9317	PTER	-0.0645	0.8620
31006	F12	10900	136895	C7orf31	-0.0645	0.8621
51012	E08	52758	126375	ZNF792	-0.0644	0.8621
51012	H09	53034	55070	DET1	-0.0644	0.8622
11008	G01	2982	57604	C8orf79	-0.0644	0.8622
51026	B11	55495	55259	CASC1	-0.0644	0.8622
11040	F11	8908	51447	IP6K2	-0.0644	0.8622
11080	C04	1531	9271	PIWIL1	-0.0644	0.8622
11057	D01	3945	5913	RAPSN	-0.0643	0.8623
11045	A04	8512	9570	GOSR2	-0.0643	0.8623
51013	C04	55113	137902	PXDNL	-0.0643	0.8625
11070	C10	9963	80230	RUFY1	-0.0642	0.8625
51026	H07	55578	119587	CPXM2	-0.0642	0.8625
51012	D04	55036	731	C8A	-0.0642	0.8626
11021	E04	3300	84264	HAGHL	-0.0641	0.8627
11072	G09	3635	26167	PCDHB5	-0.0641	0.8629
51005	H03	54448	30813	VSX1	-0.0640	0.8629
11073	D07	4842	55333	SYNJ2BP	-0.0640	0.8630
11075	D06	1677	1036	CDO1	-0.0640	0.8631
11049	G02	2577	23760	PITPNB	-0.0639	0.8631
31023	G02	13676	79829	NAA40	-0.0639	0.8631
31007	G10	11655	4726	NDUFS6	-0.0639	0.8632
11074	E12	4374	5283	PIGH	-0.0638	0.8633
51030	B09	53315	80025	PANK2	-0.0638	0.8633
11063	E12	8205	126626	GABPB2	-0.0638	0.8633
51011	C01	52975	51725	FBXO40	-0.0638	0.8634
11062	C09	831	115353	LRRC42	-0.0638	0.8634
31033	F01	14697	81570	CLPB	-0.0638	0.8635
31003	D08	10613	91404	SESTD1	-0.0637	0.8635
11048	B12	9704	3122	HLA-DRA	-0.0637	0.8635
11036	D09	1278	51412	ACTL6B	-0.0637	0.8635
11007	F03	746	64223	MLST8	-0.0637	0.8635
31018	B01	12851	5757	PTMA	-0.0637	0.8635
51029	A06	53386	54662	TBC1D13	-0.0637	0.8636
11053	A02	5878	10969	EBNA1BP2	-0.0637	0.8636
11020	D04	7743	NA	NA	-0.0637	0.8637
51031	A12	55939	171484	FAM9C	-0.0636	0.8637
31007	G08	10943	4798	NFRKB	-0.0636	0.8637

11002	E12	8218	8816	DCAF5	-0.0636	0.8637
51002	F01	53146	55859	BEX1	-0.0636	0.8638
11075	C10	4403	29965	C16orf5	-0.0636	0.8638
11009	D07	6305	5704	PSMC4	-0.0635	0.8639
11088	A04	7251	4948	OCA2	-0.0635	0.8640
11050	C05	2380	3856	KRT8	-0.0635	0.8640
51029	D09	53337	389668	XKR9	-0.0635	0.8641
51029	C05	55658	64072	CDH23	-0.0634	0.8642
51012	C12	52879	22938	SNW1	-0.0633	0.8643
11020	C09	7253	115416	C7orf30	-0.0633	0.8643
11037	D08	3167	4354	MPP1	-0.0633	0.8643
31019	B09	13130	29080	CCDC59	-0.0633	0.8644
11038	H06	1297	147746	HIPK4	-0.0633	0.8644
11072	A11	3872	3792	KEL	-0.0632	0.8645
31019	E02	13247	79848	CSPP1	-0.0632	0.8645
31042	B12	5948	9158	FIBP	-0.0632	0.8646
31026	A12	13999	10223	GPA33	-0.0632	0.8647
11009	C06	712	3491	CYR61	-0.0631	0.8647
11052	C12	1256	26249	KLHL3	-0.0631	0.8648
11070	B10	10002	63920	C5orf54	-0.0631	0.8648
11074	C06	4251	2512	FTL	-0.0630	0.8649
11004	C04	8093	79634	SCRN3	-0.0630	0.8650
11003	C08	9504	3824	KLRD1	-0.0630	0.8650
11052	B10	5209	952	CD38	-0.0630	0.8651
11056	F09	1832	1022	CDK7	-0.0629	0.8652
51003	B01	52948	80111	C3orf36	-0.0629	0.8652
51006	E10	56805	22834	ZNF652	-0.0629	0.8652
11032	A06	7013	26579	MYEOV	-0.0628	0.8653
11038	F08	5251	84838	ZNF496	-0.0628	0.8653
11021	B08	5651	51778	MYOZ2	-0.0628	0.8654
51029	B06	55522	57140	RNPEPL1	-0.0628	0.8654
51022	D12	56256	150696	PROM2	-0.0627	0.8655
11081	B05	7575	54065	FAM165B	-0.0627	0.8655
51033	B11	53946	150291	C22orf27	-0.0627	0.8655
11028	C03	8800	28227	PPP2R3B	-0.0627	0.8655
31026	E04	14025	85397	RGS8	-0.0627	0.8655
11078	F07	7174	9064	MAP3K6	-0.0627	0.8656
51012	D12	53769	10576	CCT2	-0.0627	0.8657
11041	B07	4356	84269	CHCHD5	-0.0626	0.8657
31037	E03	12495	55144	LRRC8D	-0.0626	0.8657
51018	D02	56356	5878	RAB5C	-0.0626	0.8657
31042	H07	5282	84108	PCGF6	-0.0626	0.8658
11072	F06	1900	150094	SIK1	-0.0626	0.8658
31029	F09	14381	8675	STX16	-0.0626	0.8658

31023	C04	13386	9470	EIF4E2	-0.0626	0.8658
11049	A01	6430	7138	TNNT1	-0.0625	0.8659
11079	G11	1285	114790	STK11IP	-0.0625	0.8659
31041	B10	3310	2962	GTF2F1	-0.0625	0.8659
11083	D07	2754	22916	NCBP2	-0.0625	0.8660
11020	H03	7135	5008	OSM	-0.0625	0.8660
11071	H05	2429	22868	FASTKD2	-0.0624	0.8661
11003	H09	1513	148932	MOBKL2C	-0.0624	0.8662
51018	D05	55833	10336	PCGF3	-0.0624	0.8662
31016	C09	12611	71	ACTG1	-0.0623	0.8663
31001	A09	10529	127247	ASB17	-0.0623	0.8663
51010	E11	52970	79755	ZNF750	-0.0622	0.8665
11048	C08	1347	203328	SUSD3	-0.0622	0.8665
31032	E06	14668	55114	ARHGAP17	-0.0622	0.8665
51024	B12	53256	3371	TNC	-0.0622	0.8665
31018	H06	12897	3116	HLA-DPB2	-0.0622	0.8665
31002	F12	10740	283461	C12orf40	-0.0622	0.8666
31021	G04	12843	9689	BZW1	-0.0622	0.8667
51009	F11	53602	1015	CDH17	-0.0621	0.8667
11088	G11	634	333	APLP1	-0.0621	0.8667
11085	G06	5368	1632	DCI	-0.0621	0.8668
11070	D09	421	2547	XRCC6	-0.0621	0.8668
31020	C07	13125	25983	NGDN	-0.0621	0.8668
11063	B06	8530	57037	ANKMY2	-0.0620	0.8669
11060	H07	5081	64224	HERPUD2	-0.0620	0.8670
31027	H07	13956	196	AHR	-0.0620	0.8670
31021	A11	12914	7586	ZKSCAN1	-0.0619	0.8672
11021	H04	3468	51103	NDUFAF1	-0.0619	0.8672
11060	F07	8085	164312	LRRN4	-0.0618	0.8673
11068	D07	3034	58155	PTBP2	-0.0618	0.8674
11028	F08	5295	25912	C1orf43	-0.0618	0.8674
11032	F06	6886	1891	ECH1	-0.0618	0.8674
31024	H09	13573	26088	GGA1	-0.0618	0.8674
51009	A12	54253	2533	FYB	-0.0618	0.8674
11072	F08	7930	5214	PFKP	-0.0618	0.8674
11043	E10	607	1072	CFL1	-0.0617	0.8675
11045	H07	4478	5862	RAB2A	-0.0617	0.8676
11074	D01	2499	3600	IL15	-0.0617	0.8676
31002	E03	10268	148327	CREB3L4	-0.0616	0.8677
11056	E03	565	622	BDH1	-0.0616	0.8677
51022	H09	56162	64145	ZFYVE20	-0.0616	0.8678
11070	C04	2967	65082	VPS33A	-0.0616	0.8678
51008	G09	56352	23005	MAPKBP1	-0.0616	0.8678
11057	A04	4949	55662	HIF1AN	-0.0615	0.8679

31024	D11	13460	64421	DCLRE1C	-0.0615	0.8679
11045	A08	2964	8763	CD164	-0.0614	0.8682
31021	B09	13274	2923	PDIA3	-0.0613	0.8683
51020	B10	56605	26048	ZNF500	-0.0613	0.8683
11043	E08	5757	5478	PPIA	-0.0613	0.8683
31006	B09	11214	200558	APLF	-0.0613	0.8684
31020	E12	13060	1880	GPR183	-0.0613	0.8684
11026	D05	5992	51042	ZNF593	-0.0613	0.8684
11088	C07	1818	9750	FAM65B	-0.0612	0.8685
51017	B02	56135	255167	LOC255167	-0.0612	0.8685
11036	F02	3307	51295	ECSIT	-0.0612	0.8686
11081	F01	8873	57647	DHX37	-0.0612	0.8686
11020	F09	5143	4188	MDFI	-0.0612	0.8686
11042	D01	9109	93099	DMKN	-0.0612	0.8686
11053	G07	5465	54780	NSMCE4A	-0.0612	0.8686
11060	C01	3956	84766	EFCAB4B	-0.0611	0.8687
11058	H07	8617	54843	SYTL2	-0.0611	0.8687
31006	C04	11195	6344	SCTR	-0.0611	0.8688
31041	E09	4669	39	ACAT2	-0.0611	0.8688
51024	C07	55196	57520	HECW2	-0.0611	0.8688
31017	C04	12550	8877	SPHK1	-0.0611	0.8688
51004	F12	53836	8789	FBP2	-0.0610	0.8689
11084	A07	3629	51260	CXorf26	-0.0610	0.8689
11015	D07	5530	521	ATP5I	-0.0610	0.8689
11041	C03	2204	256302	C17orf103	-0.0610	0.8689
11021	H03	8024	10049	DNAJB6	-0.0610	0.8689
31016	D01	12618	80178	C16orf59	-0.0610	0.8690
51029	G10	56554	140680	C20orf96	-0.0610	0.8690
11070	C11	6248	83858	ATAD3B	-0.0610	0.8690
11024	A09	4846	10127	ZNF263	-0.0610	0.8691
51014	G02	52715	114789	SLC25A25	-0.0609	0.8691
11084	H04	9043	9260	PDLIM7	-0.0609	0.8692
11041	F03	5557	25906	C11orf51	-0.0609	0.8692
11070	D12	10042	11143	MYST2	-0.0609	0.8692
11078	E05	6193	55131	RBM28	-0.0609	0.8692
31041	B05	7160	55336	FBXL8	-0.0609	0.8692
11085	C04	7382	221294	NT5DC1	-0.0608	0.8693
51003	E07	55641	430	ASCL2	-0.0608	0.8693
31033	G07	14938	541473	LOC541473	-0.0608	0.8693
11038	E10	5002	5252	PHF1	-0.0608	0.8694
51005	C10	53733	25819	CCRN4L	-0.0608	0.8695
51034	F10	53475	116534	MRGPRE	-0.0608	0.8695
11006	F12	8239	161003	STOML3	-0.0608	0.8695
31026	E06	13842	3024	HIST1H1A	-0.0607	0.8695

31003	F06	10458	3750	KCND1	-0.0607	0.8695
11026	F10	718	9141	PDCD5	-0.0607	0.8696
11029	D08	3671	78986	DUSP26	-0.0607	0.8696
51004	C03	52911	147040	KCTD11	-0.0606	0.8698
51033	A09	54923	645840	TXNRD3IT1	-0.0605	0.8699
11051	F04	226	1468	SLC25A10	-0.0605	0.8699
11046	G08	1367	83853	ROPN1L	-0.0605	0.8699
11015	G01	5640	51065	RPS27L	-0.0605	0.8700
31017	D08	13231	10200	MPHOSPH6	-0.0604	0.8701
11080	F01	7684	6195	RPS6KA1	-0.0604	0.8701
11001	C05	8828	78990	OTUB2	-0.0604	0.8702
11087	E10	9454	22918	CD93	-0.0604	0.8702
51025	B06	56492	23371	TENC1	-0.0603	0.8703
51003	E09	52946	284013	VMO1	-0.0603	0.8704
11024	F01	3376	51780	KDM3B	-0.0603	0.8704
11036	H10	5347	347733	TUBB2B	-0.0603	0.8704
31003	B08	10609	23385	NCSTN	-0.0603	0.8704
51013	D05	52912	3746	KCNC1	-0.0603	0.8704
11013	H01	6803	55249	YY1AP1	-0.0602	0.8705
11072	E08	2421	5859	QARS	-0.0601	0.8708
51002	B04	54943	255349	TMEM211	-0.0601	0.8708
51033	A01	55476	440193	CCDC88C	-0.0600	0.8709
51029	A04	55488	154	ADRB2	-0.0600	0.8709
11040	G11	4586	7341	SUMO1	-0.0600	0.8709
51012	E03	54814	415	ARSE	-0.0600	0.8709
51005	C06	55055	340156	MYLK4	-0.0600	0.8709
51014	F05	52938	7166	TPH1	-0.0600	0.8710
11085	D01	3199	54859	C3orf75	-0.0599	0.8711
11030	A05	6284	55777	MBD5	-0.0599	0.8711
11049	B02	6587	56984	PSMG2	-0.0599	0.8711
11021	C12	5891	5699	PSMB10	-0.0599	0.8712
11072	F09	2191	6832	SUPV3L1	-0.0599	0.8712
51003	A08	52632	27240	SIT1	-0.0598	0.8713
11058	G07	5115	4778	NFE2	-0.0598	0.8714
11063	C08	843	10329	TMEM5	-0.0598	0.8714
11049	B09	3078	4869	NPM1	-0.0597	0.8715
11074	B11	9029	90933	TRIM41	-0.0597	0.8717
31017	E05	12534	80004	ESRP2	-0.0596	0.8717
11038	A06	5575	65251	ZNF649	-0.0596	0.8718
11039	H05	1860	285782	CAGE1	-0.0596	0.8718
11035	B10	1352	29122	PRSS50	-0.0595	0.8720
11029	A07	7945	8407	TAGLN2	-0.0595	0.8721
11070	F03	7609	89941	RHOT2	-0.0594	0.8722
11017	F09	7834	51121	RPL26L1	-0.0594	0.8722

51006	E09	53764	51341	ZBTB7A	-0.0593	0.8723
31027	F03	13957	4010	LMX1B	-0.0593	0.8724
31030	A07	14267	267002	PGBD2	-0.0593	0.8724
11081	C01	8752	57804	POLD4	-0.0593	0.8724
31029	H09	14325	117195	MRGPRX3	-0.0592	0.8725
31018	E06	12967	128346	C1orf162	-0.0592	0.8725
11008	F10	356	1525	CXADR	-0.0592	0.8725
11078	F11	6151	3091	HIF1A	-0.0592	0.8725
51009	G09	55045	84905	ZNF341	-0.0592	0.8726
11007	H07	4917	79143	MBOAT7	-0.0592	0.8726
11055	F04	4419	65258	MPPE1	-0.0591	0.8727
51025	A04	56338	23240	KIAA0922	-0.0591	0.8728
11022	B07	7603	5527	PPP2R5C	-0.0591	0.8728
31015	E05	12557	10467	ZNHIT1	-0.0591	0.8729
11025	G08	2329	23065	KIAA0090	-0.0590	0.8729
11014	G07	2947	57614	KIAA1468	-0.0590	0.8729
11075	H08	4786	55093	WDYHV1	-0.0590	0.8730
11015	E09	6227	2785	GNG3	-0.0590	0.8730
11043	C07	6363	6392	SDHD	-0.0589	0.8731
11044	A11	287	597	BCL2A1	-0.0589	0.8732
11037	H01	5960	5547	PRCP	-0.0588	0.8733
51008	D04	55373	25894	PLEKHG4	-0.0588	0.8733
31011	B02	11364	83857	TMTC1	-0.0588	0.8734
11048	A12	9031	7253	TSHR	-0.0588	0.8734
31018	F07	13186	10200	MPHOSPH6	-0.0588	0.8735
11037	H04	5556	9499	MYOT	-0.0588	0.8735
51020	E04	56585	1159	CKMT1B	-0.0587	0.8736
31016	B03	12593	432	ASGR1	-0.0586	0.8737
11077	G10	1939	56903	PAPOLB	-0.0586	0.8737
11042	A11	2484	54954	FAM120C	-0.0586	0.8739
11053	B11	4297	80764	THAP7	-0.0585	0.8739
31022	E04	13495	9113	LATS1	-0.0585	0.8739
11082	B10	4665	11224	RPL35	-0.0585	0.8740
11061	E08	4596	842	CASP9	-0.0584	0.8741
31025	B04	13714	10444	ZER1	-0.0584	0.8742
11015	G08	5680	23676	SMPX	-0.0584	0.8742
51021	E11	55900	752	FMNL1	-0.0584	0.8742
11085	D07	8344	199870	FAM76A	-0.0583	0.8743
31029	G04	14358	153769	SH3RF2	-0.0583	0.8743
11003	G08	1387	113177	IZUMO4	-0.0583	0.8744
11080	G10	2597	9600	PITPNM1	-0.0583	0.8744
31005	G04	11300	9452	ITM2A	-0.0583	0.8744
11072	D09	1633	79838	TMC5	-0.0583	0.8744
11009	H06	3745	5778	PTPN7	-0.0582	0.8746

11080	F02	5281	57325	CSRP2BP	-0.0582	0.8747
11007	D07	6017	78992	YIPF2	-0.0581	0.8747
51004	A09	53894	6799	SULT1A2	-0.0581	0.8747
11066	G01	2402	54834	GDAP2	-0.0581	0.8748
31003	H10	10471	7090	TLE3	-0.0581	0.8748
31009	G05	11724	51321	AMZ2	-0.0581	0.8748
51028	B03	55891	41	ACCN2	-0.0580	0.8749
11074	B03	4312	740	MRPL49	-0.0580	0.8749
31022	F05	13518	1474	CST6	-0.0580	0.8749
31042	E08	5218	275	AMT	-0.0580	0.8750
51033	D02	10391	399668	NCRNA00086	-0.0580	0.8750
11081	F04	3351	54543	TOMM7	-0.0580	0.8751
51009	B10	52949	347240	KIF24	-0.0579	0.8751
51009	B05	53631	22870	PPP6R1	-0.0579	0.8751
11013	B05	2029	64396	GMCL1L	-0.0579	0.8752
11008	C06	172	8812	CCNK	-0.0579	0.8752
51026	E06	56820	3694	ITGB6	-0.0579	0.8753
51006	B08	54862	286887	KRT6C	-0.0578	0.8753
11067	C12	2464	54407	SLC38A2	-0.0578	0.8753
11079	A05	7650	4126	MANBA	-0.0578	0.8753
11044	E07	711	126282	TNFAIP8L1	-0.0578	0.8754
11032	H04	9278	29060	HSPC047	-0.0578	0.8754
11044	F12	570	10016	PDCD6	-0.0578	0.8754
11064	H11	7321	3500	IGHG1	-0.0578	0.8754
31015	G10	12596	NA	NA	-0.0578	0.8754
31036	B01	10377	5209	PFKFB3	-0.0578	0.8755
11016	D01	7550	51234	TMEM85	-0.0577	0.8756
31014	C11	11878	4099	MAG	-0.0577	0.8756
11007	E01	3865	328	APEX1	-0.0577	0.8757
11028	H10	5367	29089	UBE2T	-0.0577	0.8757
11020	F01	7521	54602	NDFIP2	-0.0576	0.8757
31017	B12	13095	51751	HIGD1B	-0.0576	0.8757
11051	G06	6517	11282	MGAT4B	-0.0576	0.8757
11072	A07	2534	23154	NCDN	-0.0576	0.8757
31029	F04	14283	23383	KIAA0892	-0.0576	0.8758
51029	H01	55391	8780	RIOK3	-0.0575	0.8759
51035	E01	53625	171482	FAM9A	-0.0575	0.8759
31004	F10	11266	56674	TMEM9B	-0.0575	0.8759
31006	E03	11098	151056	PLB1	-0.0575	0.8759
51020	D10	56358	1796	DOK1	-0.0575	0.8760
51020	G10	56811	10307	APBB3	-0.0575	0.8760
11006	A12	2284	253260	RICTOR	-0.0575	0.8760
11088	D01	10041	567	B2M	-0.0575	0.8761
11028	H01	9042	79054	TRPM8	-0.0574	0.8761

51024	E11	55203	2335	FN1	-0.0574	0.8761
11038	G08	2068	2894	GRID1	-0.0574	0.8762
51020	D09	56583	55315	SLC29A3	-0.0574	0.8763
11089	E04	1745	284083	C17orf47	-0.0573	0.8763
31005	F01	11167	286343	C9orf150	-0.0573	0.8764
11083	E11	6453	1448	CSN3	-0.0573	0.8764
11077	E03	1640	11311	VPS45	-0.0573	0.8764
11080	G04	8367	558	AXL	-0.0573	0.8765
51013	H10	53524	342945	ZSCAN22	-0.0572	0.8765
51008	B06	54233	25	ABL1	-0.0572	0.8765
31031	E04	14585	55801	IL26	-0.0572	0.8766
31025	G11	13853	83955	NACAP1	-0.0572	0.8766
11008	C05	8578	55388	MCM10	-0.0572	0.8767
11078	D09	1948	56478	EIF4ENIF1	-0.0572	0.8767
31004	F07	10904	4815	NINJ2	-0.0571	0.8767
11067	C01	897	6729	SRP54	-0.0571	0.8767
51014	C12	52800	10150	MBNL2	-0.0571	0.8768
51033	G06	54801	9560	CCL4L1	-0.0571	0.8768
31009	A04	11714	79228	THOC6	-0.0571	0.8768
11043	B01	4792	9536	PTGES	-0.0571	0.8768
11020	D02	5322	55365	TMEM176A	-0.0571	0.8769
51013	C09	53962	117	ADCYAP1R1	-0.0571	0.8769
11017	D04	5453	51227	PIGP	-0.0570	0.8769
51027	E04	56840	56987	BBX	-0.0570	0.8769
11043	B02	8738	54581	SCAND2	-0.0570	0.8770
11025	F12	4666	9343	EFTUD2	-0.0570	0.8770
11035	F08	3289	51280	GOLM1	-0.0570	0.8770
51026	H11	56683	9911	TMCC2	-0.0570	0.8771
11035	D09	6347	55003	PAK11P1	-0.0570	0.8771
51013	E09	54062	129807	NEU4	-0.0569	0.8771
11017	B06	7402	54586	C9orf11	-0.0569	0.8771
11064	F08	5631	10146	G3BP1	-0.0569	0.8772
51012	H08	52792	345193	LRIT3	-0.0569	0.8772
31031	B03	14576	3578	IL9	-0.0569	0.8772
11062	G09	4897	5316	PKNOX1	-0.0569	0.8773
11070	E04	3006	6850	SYK	-0.0569	0.8773
11045	D03	4856	6004	RGS16	-0.0569	0.8773
51031	F08	56739	255180	FLJ38723	-0.0568	0.8774
11035	A12	6608	84173	ELMOD3	-0.0568	0.8775
11039	E07	1551	5519	PPP2R1B	-0.0567	0.8776
31031	G08	14586	3593	IL12B	-0.0567	0.8776
31024	E12	13446	81533	ITFG1	-0.0567	0.8776
11012	F05	4545	56658	TRIM39	-0.0567	0.8777
11037	G09	4714	10425	ARIH2	-0.0567	0.8777

31001	G09	10734	196951	C15orf33	-0.0566	0.8777
51024	H07	55209	4040	LRP6	-0.0566	0.8777
51021	F04	56182	91056	DKFZp761E198	-0.0566	0.8777
51006	F04	56841	81602	CDADC1	-0.0566	0.8778
11057	D06	9382	200942	KLHDC8B	-0.0566	0.8778
11049	H10	2010	54664	TMEM106B	-0.0566	0.8778
31019	E05	13158	5617	PRL	-0.0565	0.8779
11079	B01	7049	23214	XPO6	-0.0565	0.8779
31014	C09	12017	1808	DPYSL2	-0.0565	0.8780
31022	C10	13633	554223	LOC554223	-0.0565	0.8780
11071	D07	9838	84643	KIF2B	-0.0565	0.8780
11082	H01	8735	4286	MITF	-0.0565	0.8780
51005	E02	55048	343263	MYBPHL	-0.0565	0.8780
11037	F09	3297	158	ADSL	-0.0565	0.8781
11070	D02	669	5743	PTGS2	-0.0564	0.8781
11056	H10	8610	55127	HEATR1	-0.0564	0.8781
11035	E12	9102	9869	SETDB1	-0.0564	0.8781
11076	A11	3947	4329	ALDH6A1	-0.0564	0.8782
11045	G08	4279	84733	CBX2	-0.0564	0.8783
31041	D06	6144	1503	CTPS	-0.0563	0.8784
51013	F02	52718	112802	KRT71	-0.0563	0.8784
11042	B08	1951	196549	EEF1DP3	-0.0563	0.8784
31007	D08	10827	23287	AGTPBP1	-0.0563	0.8785
11045	D02	4790	11007	CCDC85B	-0.0563	0.8785
51035	D10	54741	3188	HNRNPH2	-0.0562	0.8785
11024	C02	8458	4600	MX2	-0.0562	0.8786
11001	H11	3099	119504	ANAPC16	-0.0562	0.8786
31002	C01	10790	54361	WNT4	-0.0562	0.8787
51001	C02	54444	246705	C21orf94	-0.0562	0.8787
11088	D05	8335	7130	TNFAIP6	-0.0562	0.8787
11051	F08	3027	10560	SLC19A2	-0.0561	0.8787
11016	F10	5623	79017	GGCT	-0.0561	0.8788
51012	B10	53723	3784	KCNQ1	-0.0561	0.8788
11079	E12	3898	7917	BAT3	-0.0561	0.8788
31027	F06	13953	126410	CYP4F22	-0.0561	0.8788
11051	D06	5460	51256	TBC1D7	-0.0561	0.8789
11035	E04	6602	79603	LASS4	-0.0561	0.8789
11077	A03	4870	3853	KRT6A	-0.0560	0.8790
11050	E08	1020	259282	BOD1L	-0.0560	0.8790
11055	B08	1578	57088	PLSCR4	-0.0560	0.8790
31022	C02	13341	8364	HIST1H4C	-0.0560	0.8790
31022	H11	13534	1839	HBEGF	-0.0560	0.8790
11012	F11	3900	3790	KCNS3	-0.0560	0.8790
11020	G06	8927	29781	NCAPH2	-0.0560	0.8791

11006	A11	9817	766	CA7	-0.0560	0.8791
51010	E06	54340	272	AMPD3	-0.0560	0.8791
11049	E06	3925	54974	THG1L	-0.0559	0.8791
31002	D03	10686	84072	HORMAD1	-0.0559	0.8792
31023	C07	13524	283229	EFCAB4A	-0.0559	0.8792
51033	H10	54106	145757	LOC145757	-0.0559	0.8793
11027	H09	8329	919	CD247	-0.0559	0.8793
11087	E11	905	22980	TCF25	-0.0558	0.8794
11089	E01	2969	113220	KIF12	-0.0558	0.8794
11041	G03	5094	51025	TIMM16	-0.0558	0.8794
11002	B08	9688	9814	SFI1	-0.0558	0.8794
31037	D02	12150	55630	SLC39A4	-0.0558	0.8795
31025	G02	13393	89890	KBTBD6	-0.0557	0.8796
31013	E10	11982	10641	NPRL2	-0.0557	0.8796
31015	E08	12493	79727	LIN28A	-0.0557	0.8797
11020	D09	5617	7103	TSPAN8	-0.0557	0.8797
31006	A08	11247	83875	BCO2	-0.0556	0.8798
11025	H02	2539	84343	HPS3	-0.0556	0.8799
31036	D08	12003	57727	NCOA5	-0.0556	0.8799
51010	G04	53577	56137	PCDHA12	-0.0555	0.8800
11008	F06	374	51150	SDF4	-0.0555	0.8801
31040	D03	2268	10250	SRRM1	-0.0554	0.8802
31016	E08	12681	5413	SEPT5	-0.0554	0.8803
11062	E08	6791	28988	DBNL	-0.0554	0.8803
11032	D11	1158	54886	LPPR1	-0.0554	0.8803
51027	B06	55251	55552	ZNF823	-0.0554	0.8803
31016	C08	12820	4733	DRG1	-0.0552	0.8807
51015	G08	52846	10584	COLEC10	-0.0552	0.8807
11025	G11	2537	10919	EHMT2	-0.0552	0.8807
51001	B10	52626	150244	ZDHHC8P1	-0.0552	0.8807
31033	A07	14924	6283	S100A12	-0.0551	0.8808
11088	F11	2933	55515	ACCN4	-0.0551	0.8808
11004	B04	9020	5144	PDE4D	-0.0551	0.8809
51020	H01	55817	9394	HS6ST1	-0.0550	0.8810
11062	H03	5266	26100	WIPI2	-0.0550	0.8811
11087	F06	9267	147872	CCDC155	-0.0550	0.8811
11038	F07	5815	7430	EZR	-0.0550	0.8811
11068	G04	10105	163227	ZNF100	-0.0550	0.8811
11080	B04	2934	55665	URGCP	-0.0549	0.8812
31002	D07	10675	2774	GNAL	-0.0549	0.8813
11087	H03	4674	6624	FSCN1	-0.0549	0.8813
11030	D05	7932	51382	ATP6V1D	-0.0548	0.8814
11085	G02	8533	56935	C11orf75	-0.0548	0.8814
11009	G07	281	4598	MVK	-0.0548	0.8815

11020	C01	5665	9443	MED7	-0.0548	0.8815
11012	D07	216	60313	GPBP1L1	-0.0548	0.8815
11020	H02	6070	10653	SPINT2	-0.0548	0.8815
51004	C02	52847	27121	DKK4	-0.0547	0.8816
11065	G08	4448	4691	NCL	-0.0547	0.8817
31041	D01	7285	6649	SOD3	-0.0547	0.8817
11055	B11	3478	29086	C19orf62	-0.0546	0.8818
11059	A11	3899	10983	CCNI	-0.0546	0.8818
31042	C04	7021	55041	PLEKHB2	-0.0546	0.8819
31030	C03	14386	114792	KLHL32	-0.0546	0.8819
51010	D09	52987	1616	DAXX	-0.0546	0.8819
11079	C04	6022	51460	SFMBT1	-0.0545	0.8820
11012	G05	5916	84705	GTPBP3	-0.0545	0.8820
11084	F08	1728	219654	ZCCHC24	-0.0545	0.8820
51020	B12	56314	6913	TBX15	-0.0545	0.8821
31007	E05	10843	81035	COLEC12	-0.0545	0.8821
31032	E07	14732	23190	UBXN4	-0.0545	0.8821
31015	D05	12448	6150	MRPL23	-0.0544	0.8822
31019	G05	13289	3240	HP	-0.0544	0.8822
31031	G11	14583	10888	GPR83	-0.0544	0.8824
11086	D03	7914	85865	GTPBP10	-0.0543	0.8824
11009	B05	7632	8459	TPST2	-0.0543	0.8824
31014	H10	12149	55904	MLL5	-0.0543	0.8824
11025	F10	1242	84067	FAM160A2	-0.0543	0.8824
51003	H09	53427	23433	RHOQ	-0.0543	0.8825
11083	B06	5096	7262	PHLDA2	-0.0543	0.8825
31021	F10	13227	4747	NEFL	-0.0543	0.8825
31040	B11	8769	259266	ASPM	-0.0543	0.8825
11039	H01	1541	22849	CPEB3	-0.0543	0.8826
11071	H02	3674	6749	SSRP1	-0.0543	0.8826
31019	A04	13079	2243	FGA	-0.0542	0.8826
31015	C05	12584	9617	MTRF1	-0.0542	0.8826
11009	C08	7079	51614	ERGIC3	-0.0542	0.8826
11038	D06	5931	3383	ICAM1	-0.0542	0.8826
11001	H05	9356	55503	TRPV6	-0.0542	0.8826
11058	C11	5988	4733	DRG1	-0.0542	0.8828
11009	C09	2819	1116	CHI3L1	-0.0541	0.8828
51034	G09	53584	89874	SLC25A21	-0.0541	0.8828
51023	C01	56265	283284	IGSF22	-0.0541	0.8828
11047	E02	557	7105	TSPAN6	-0.0541	0.8828
11027	D06	4673	7335	UBE2V1	-0.0541	0.8828
11065	B09	9231	158297	FAM154A	-0.0541	0.8829
11054	D05	2151	83862	TMEM120A	-0.0541	0.8829
11020	D05	3621	975	CD81	-0.0541	0.8829

31003	F02	10562	51265	CDKL3	-0.0541	0.8829
51024	F06	54158	9693	RAPGEF2	-0.0540	0.8830
11076	A10	9215	10771	ZMYND11	-0.0540	0.8830
51014	H04	52902	3812	KIR3DL2	-0.0540	0.8831
11087	B10	4214	51322	WAC	-0.0540	0.8831
11062	F05	5410	6794	STK11	-0.0540	0.8831
11051	G10	8013	6810	STX4	-0.0540	0.8831
11063	D12	4200	29116	MYLIP	-0.0539	0.8833
11077	B05	2370	4001	LMNB1	-0.0539	0.8833
11078	E07	7367	115704	EVI5L	-0.0539	0.8833
11021	D04	5098	58495	OVOL2	-0.0538	0.8835
11009	A02	3081	2769	GNA15	-0.0537	0.8837
11063	B07	735	55890	GPRC5C	-0.0537	0.8837
11037	H02	3474	5127	CDK16	-0.0537	0.8838
51031	E03	56898	2215	FCGR3B	-0.0536	0.8839
11005	G02	27	10573	MRPL28	-0.0536	0.8839
31030	A05	14220	22832	KIAA1009	-0.0535	0.8840
51020	A04	56627	89869	PLCZ1	-0.0535	0.8841
11044	G04	5040	50626	CYHR1	-0.0535	0.8841
51015	G01	53003	5009	OTC	-0.0535	0.8841
11006	A05	7854	5692	PSMB4	-0.0535	0.8841
11001	F03	9335	1339	COX6A2	-0.0535	0.8842
31041	B11	5004	80207	OPA3	-0.0534	0.8842
31016	E02	12696	124790	HEXIM2	-0.0534	0.8843
51029	G03	56478	283685	GOLGA6L2	-0.0534	0.8844
11014	H05	2971	84976	DISP1	-0.0534	0.8844
31029	C09	14408	91409	CCDC74B	-0.0533	0.8845
11073	G10	4426	27077	B9D1	-0.0533	0.8845
31041	B08	6833	10131	TRAP1	-0.0533	0.8845
11054	C07	8583	55773	TBC1D23	-0.0533	0.8845
51028	A04	53234	340120	ANKRD34B	-0.0533	0.8846
11059	F01	9566	7101	NR2E1	-0.0533	0.8846
31043	F04	7317	64319	FBRS	-0.0532	0.8846
11001	D04	3109	9503	XAGE1D	-0.0532	0.8846
31036	B02	10518	9534	ZNF254	-0.0532	0.8847
11032	G08	6025	2307	FOXS1	-0.0532	0.8848
11078	A02	1317	57144	PAK7	-0.0532	0.8848
31038	G08	5865	2593	GAMT	-0.0532	0.8848
31024	H01	13557	128178	EDARADD	-0.0531	0.8848
31023	A11	13410	53834	FGFRL1	-0.0531	0.8849
31033	B12	14851	7170	TPM3	-0.0531	0.8849
11028	F05	3213	79017	GGCT	-0.0531	0.8850
11038	B02	3685	96459	FNIP1	-0.0530	0.8851
51004	F09	53508	345275	HSD17B13	-0.0530	0.8852

51005	B01	54023	4978	OPCML	-0.0530	0.8852
11024	A03	3920	2997	GYS1	-0.0529	0.8852
31039	F04	1792	10473	HMGH4	-0.0529	0.8852
11003	H04	56	3146	HMGB1	-0.0529	0.8854
11081	D12	9811	7031	TFF1	-0.0529	0.8854
51020	E12	55870	26012	NELF	-0.0529	0.8854
11019	E06	9148	54988	ACSM5	-0.0529	0.8854
51011	D11	53106	23350	SR140	-0.0528	0.8854
51017	D11	56598	65996	MGC2752	-0.0528	0.8855
11013	G01	7361	80221	ACSF2	-0.0528	0.8855
31010	F11	11784	63979	FIGNL1	-0.0528	0.8855
11064	F12	2399	3664	IRF6	-0.0528	0.8856
11002	G07	6164	3557	IL1RN	-0.0528	0.8856
11088	E04	5452	4801	NFYB	-0.0528	0.8856
11026	F04	2831	283232	TMEM80	-0.0527	0.8857
51001	A08	55945	24150	TP53TG3	-0.0527	0.8857
31011	E04	11804	23677	SH3BP4	-0.0527	0.8858
51027	A12	55328	498	ATP5A1	-0.0527	0.8858
11043	C02	5532	6035	RNASE1	-0.0526	0.8858
31034	D03	14952	1366	CLDN7	-0.0526	0.8859
11013	E02	894	117246	FTSJ3	-0.0526	0.8859
31030	D08	14189	55095	SAMD4B	-0.0526	0.8859
11078	C11	2984	10426	TUBGCP3	-0.0526	0.8860
51006	H08	56698	23151	GRAMD4	-0.0526	0.8860
31042	E04	6461	10981	RAB32	-0.0526	0.8860
31040	H10	2180	5100	PCDH8	-0.0526	0.8860
11075	F08	4245	55858	TMEM165	-0.0525	0.8860
11012	D04	2836	8991	SELENBP1	-0.0525	0.8861
11008	G04	5947	81488	GRINL1A	-0.0525	0.8861
51004	A12	54572	338657	CCDC84	-0.0525	0.8861
11084	C08	9599	124599	CD300LB	-0.0525	0.8862
11041	B03	4202	55109	AGGF1	-0.0524	0.8862
11087	B12	7236	91289	LMF2	-0.0524	0.8863
31042	C03	6310	1161	ERCC8	-0.0524	0.8863
11046	A04	2287	283635	FAM177A1	-0.0524	0.8864
11072	B03	2949	1856	DVL2	-0.0524	0.8864
11057	E07	9655	84902	CCDC123	-0.0524	0.8864
51026	H08	56865	57631	LRCH2	-0.0524	0.8864
11085	D12	2912	25789	TMEM59L	-0.0523	0.8865
31006	H02	11073	259230	SGMS1	-0.0523	0.8865
11080	A03	1106	26133	TRPC4AP	-0.0523	0.8865
11055	B12	4033	55486	PARL	-0.0523	0.8865
31031	B12	14644	26224	FBXL3	-0.0523	0.8866
51016	D09	55980	285987	DLX6AS	-0.0523	0.8866

11049	C09	2807	3125	HLA-DRB3	-0.0523	0.8866
11004	H02	2972	113763	C7orf29	-0.0523	0.8866
11026	H05	207	54108	CHRAC1	-0.0523	0.8866
11044	E09	773	4833	NME4	-0.0522	0.8867
51031	C05	56345	11076	TPPP	-0.0522	0.8867
11051	B03	2841	90050	FAM181A	-0.0522	0.8867
31038	E01	13962	4846	NOS3	-0.0522	0.8867
51031	H11	56491	150135	C21orf129	-0.0522	0.8868
11004	A12	9778	151194	FAM119A	-0.0521	0.8869
11068	C12	9232	56000	NXF3	-0.0521	0.8870
51020	B03	56591	25886	POC1A	-0.0521	0.8870
11064	F06	4471	55695	NSUN5	-0.0521	0.8870
11084	G06	2137	165721	DNAJB8	-0.0521	0.8870
11087	E12	5113	4318	MMP9	-0.0520	0.8871
11089	F01	1852	161829	EXD1	-0.0520	0.8872
11075	H02	9034	10457	GPNMB	-0.0520	0.8872
31039	H02	7981	26470	SEZ6L2	-0.0520	0.8872
11066	B12	5090	57175	CORO1B	-0.0520	0.8872
11007	C02	7541	60496	AASDHPPT	-0.0519	0.8873
11015	E12	7495	8970	HIST1H2BJ	-0.0519	0.8873
31008	C10	11737	10078	TSSC4	-0.0519	0.8873
11088	B11	1380	3305	HSPA1L	-0.0519	0.8874
31025	F01	13496	7515	XRCC1	-0.0519	0.8874
11060	G09	8507	120400	FAM55A	-0.0519	0.8874
11003	H01	8547	349565	NMNAT3	-0.0518	0.8875
11038	D03	5317	5315	PKM2	-0.0518	0.8875
11007	B03	9597	1774	DNASE1L1	-0.0518	0.8876
11018	B08	7429	116123	FMO9P	-0.0518	0.8876
11075	F12	5534	51126	NAA20	-0.0518	0.8877
11003	D12	9204	128646	SIRPD	-0.0517	0.8877
31042	A04	6695	9045	RPL14	-0.0517	0.8878
51030	C01	56907	147166	TRIM16L	-0.0517	0.8878
51034	E03	54713	3010	HIST1H1T	-0.0517	0.8879
31018	A10	12984	136647	C7orf11	-0.0516	0.8879
11020	H09	5786	515	ATP5F1	-0.0516	0.8879
11009	B10	584	26256	CABYR	-0.0516	0.8879
11042	A09	5741	8190	MIA	-0.0516	0.8880
11036	G03	7939	49856	WDR8	-0.0516	0.8880
51010	D01	53117	57758	SCUBE2	-0.0516	0.8881
11004	B12	5443	80213	TM2D3	-0.0516	0.8881
51011	D01	52854	57343	ZNF304	-0.0515	0.8881
11037	B12	3506	23378	RRP8	-0.0515	0.8881
11088	E08	867	6668	SP2	-0.0515	0.8882
31016	B07	12822	83468	GLT8D2	-0.0515	0.8883

11008	G11	6937	10488	CREB3	-0.0515	0.8883
11016	G10	9076	729991	LOC729991	-0.0514	0.8883
31011	G11	12380	55652	SLC48A1	-0.0514	0.8884
11037	F12	5152	79875	THSD4	-0.0514	0.8885
11083	D05	9141	3308	HSPA4	-0.0514	0.8885
11014	H03	532	22937	SCAP	-0.0513	0.8885
31022	B04	13774	8260	NAA10	-0.0513	0.8885
31019	B10	12895	1193	CLIC2	-0.0513	0.8885
11034	D05	2101	84690	SPATA22	-0.0513	0.8886
51029	E04	55486	84216	TMEM117	-0.0513	0.8886
31040	F09	9565	4355	MPP2	-0.0513	0.8887
31019	A03	13224	56672	C11orf17	-0.0512	0.8887
31017	B01	12631	26118	WSB1	-0.0512	0.8887
11005	B02	5604	2952	GSTT1	-0.0512	0.8889
11029	F04	9351	5874	RAB27B	-0.0511	0.8889
11077	A10	3784	6185	RPN2	-0.0510	0.8891
31042	E07	6565	55435	AP1AR	-0.0510	0.8891
31012	E08	11976	128853	DUSP15	-0.0510	0.8891
51010	A07	52832	152503	SH3D19	-0.0510	0.8892
11007	B06	6682	54487	DGCR8	-0.0510	0.8892
11049	C06	5751	3123	HLA-DRB1	-0.0510	0.8893
31016	E04	12821	51109	RDH11	-0.0509	0.8893
11052	G03	8567	7316	UBC	-0.0509	0.8894
11040	B05	5169	84987	C12orf62	-0.0509	0.8894
11007	D03	2152	79734	KCTD17	-0.0508	0.8896
31044	D07	8430	9865	TRIL	-0.0508	0.8896
51009	H04	54314	151050	C2orf67	-0.0508	0.8897
51032	C03	55403	128344	C1orf88	-0.0508	0.8897
31015	H10	12421	60436	TGIF2	-0.0507	0.8898
11084	A04	8124	387758	FIBIN	-0.0507	0.8898
11015	B09	5415	158435	LOC158435	-0.0507	0.8898
31038	E10	6614	55113	XKR8	-0.0507	0.8899
51005	D07	53763	7443	VRK1	-0.0506	0.8899
11073	G07	4290	6217	RPS16	-0.0506	0.8900
31043	B02	7413	10134	BCAP31	-0.0506	0.8900
51033	C03	55392	81631	MAP1LC3B	-0.0506	0.8900
11015	F01	8962	84328	LZIC	-0.0506	0.8900
31021	C11	13210	2719	GPC3	-0.0506	0.8901
31016	G08	12722	90362	FAM110B	-0.0505	0.8902
11050	H10	4413	64393	ZMAT3	-0.0505	0.8902
31033	E06	14823	80332	ADAM33	-0.0505	0.8902
31032	A03	14529	1133	CHRM5	-0.0505	0.8903
31012	A08	11875	5891	RAGE	-0.0504	0.8903
11072	E07	2295	139135	PASD1	-0.0504	0.8904

11070	C03	7066	5027	P2RX7	-0.0504	0.8904
31004	A06	10917	5412	UBL3	-0.0504	0.8904
31030	D07	14416	23213	SULF1	-0.0503	0.8905
11008	B02	380	11344	TWF2	-0.0503	0.8906
11044	B08	136	53827	FXYD5	-0.0503	0.8907
11080	E06	6718	4343	MOV10	-0.0503	0.8907
11030	C10	3853	56898	BDH2	-0.0503	0.8907
31017	A08	13028	81889	FAHD1	-0.0502	0.8908
11075	H04	1584	133690	CAPSL	-0.0502	0.8908
11020	B12	5312	83931	STK40	-0.0502	0.8908
31033	F02	14690	23580	CDC42EP4	-0.0502	0.8908
31011	G01	11606	5333	PLCD1	-0.0502	0.8908
11003	B03	9035	2767	GNA11	-0.0502	0.8909
31003	B10	10535	340307	CTAGE6P	-0.0502	0.8909
11059	B04	795	90557	CCDC74A	-0.0502	0.8909
11071	B12	9246	57535	KIAA1324	-0.0501	0.8910
11056	C05	4859	11266	DUSP12	-0.0500	0.8912
51031	C06	55840	128178	EDARADD	-0.0500	0.8913
51012	E02	53074	54756	IL17RD	-0.0500	0.8913
51026	G08	56927	115703	ARHGAP33	-0.0500	0.8913
31039	A11	5934	4522	MTHFD1	-0.0500	0.8914
11035	E02	6361	10097	ACTR2	-0.0499	0.8914
11049	C12	4385	65005	MRPL9	-0.0499	0.8914
11062	H09	8338	22854	NTNG1	-0.0499	0.8915
31039	C02	3155	334	APLP2	-0.0499	0.8915
31041	H05	5274	3142	HLX	-0.0499	0.8915
11071	F09	7978	28232	SLCO3A1	-0.0499	0.8915
11001	D06	908	51326	ARL17A	-0.0498	0.8916
11032	A04	7295	85409	NKD2	-0.0498	0.8916
11019	A05	7427	118932	ANKRD22	-0.0498	0.8916
11019	F03	6610	6882	TAF11	-0.0498	0.8916
51031	E07	56906	79064	TMEM223	-0.0498	0.8917
11012	H04	6267	84619	ZGPAT	-0.0498	0.8917
11016	F02	7171	116540	MRPL53	-0.0497	0.8918
11029	B05	2568	26112	CCDC69	-0.0497	0.8918
11039	C11	7070	57655	GRAMD1A	-0.0497	0.8918
31001	C11	10375	5634	PRPS2	-0.0497	0.8918
11044	E10	2192	5037	PEBP1	-0.0497	0.8918
11032	C03	6407	10069	RWDD2B	-0.0497	0.8919
51011	C07	54101	1122	CHML	-0.0497	0.8919
51029	D07	56245	5604	MAP2K1	-0.0497	0.8919
11059	C04	4345	2353	FOS	-0.0497	0.8920
11030	G07	7957	7390	UROS	-0.0496	0.8920
11069	E05	4796	4324	MMP15	-0.0496	0.8920

11018	A03	6689	113691	MGC16703	-0.0496	0.8920
11058	F10	5239	10095	ARPC1B	-0.0496	0.8920
51033	B10	53707	284029	C17orf44	-0.0496	0.8921
31001	D12	10732	129880	BBS5	-0.0495	0.8922
31006	C08	11101	94	ACVRL1	-0.0495	0.8922
51005	H11	54092	79868	ALG13	-0.0495	0.8922
31024	F12	13613	2070	EYA4	-0.0495	0.8923
51032	C01	56486	284836	C21orf125	-0.0495	0.8923
31027	F09	14548	64091	POPDC2	-0.0495	0.8924
51030	G05	56463	51213	LUZP4	-0.0494	0.8924
11027	G07	3398	79081	C11orf48	-0.0494	0.8924
31002	E07	10699	7567	ZNF19	-0.0494	0.8925
51013	F09	54069	126669	SHE	-0.0494	0.8925
51033	D01	56437	NA	NA	-0.0494	0.8925
11044	E02	4788	54991	C1orf159	-0.0493	0.8926
31036	A12	11944	79874	RABEP2	-0.0493	0.8927
31041	F04	6235	126306	JSRP1	-0.0493	0.8927
11059	B10	5676	51566	ARMCX3	-0.0493	0.8927
11036	A04	6014	445	ASS1	-0.0493	0.8927
11061	A05	3844	95	ACY1	-0.0493	0.8928
11044	E06	591	115286	SLC25A26	-0.0493	0.8928
11064	G04	10020	1138	CHRNA5	-0.0492	0.8928
51002	A07	53872	130872	AHSA2	-0.0492	0.8928
11071	B11	688	11216	AKAP10	-0.0492	0.8929
31029	G05	14255	339448	C1orf174	-0.0492	0.8930
11040	B11	5550	486	FXVD2	-0.0492	0.8930
11042	A06	6349	51003	MED31	-0.0491	0.8930
31015	B05	12487	64940	STAG3L4	-0.0491	0.8931
11030	B10	1148	23531	MMD	-0.0491	0.8931
51008	B01	54337	22866	CNKSR2	-0.0491	0.8931
31005	B03	11250	255352	C10orf93	-0.0491	0.8931
31010	A08	11551	51411	BIN2	-0.0491	0.8931
11087	G09	3444	827	CAPN6	-0.0491	0.8932
31005	B12	11165	79616	CCNJL	-0.0490	0.8933
11088	H09	660	9878	TOX4	-0.0490	0.8933
11041	F06	8641	54933	RHBDL2	-0.0490	0.8933
11064	G11	7702	51004	COQ6	-0.0489	0.8934
11040	C05	9072	2790	GNG10	-0.0489	0.8935
31011	F04	11574	4790	NFKB1	-0.0489	0.8935
51020	H06	56576	55005	RMND1	-0.0489	0.8935
51035	E02	53479	5459	POU4F3	-0.0489	0.8935
11071	A08	7023	9690	UBE3C	-0.0489	0.8935
11072	B10	7143	1653	DDX1	-0.0489	0.8936
31014	E11	12195	257160	RNF214	-0.0488	0.8938

31038	E02	14799	221472	FGD2	-0.0487	0.8938
11013	E11	1686	11275	KLHL2	-0.0487	0.8938
11078	A01	1535	56890	MDM1	-0.0487	0.8939
11067	H09	2212	8798	DYRK4	-0.0487	0.8939
31021	E11	12904	10056	FARSB	-0.0487	0.8939
11016	H06	5189	84989	LOC84989	-0.0487	0.8939
11047	A08	4097	29950	SERTAD1	-0.0486	0.8940
31041	C10	8959	NA	NA	-0.0486	0.8941
31045	B07	9827	8528	DDO	-0.0486	0.8941
51002	H07	54850	391104	VHLL	-0.0486	0.8941
31040	G09	8202	126295	ZNF57	-0.0486	0.8942
51011	D10	52870	3751	KCND2	-0.0486	0.8942
31010	B01	11822	7133	TNFRSF1B	-0.0485	0.8942
11016	D05	7412	10632	ATP5L	-0.0485	0.8943
11037	E09	7455	10172	ZNF256	-0.0485	0.8943
31005	G06	10984	3921	RPSA	-0.0485	0.8944
11009	G10	5245	64222	TOR3A	-0.0485	0.8944
11009	H05	3820	54386	TERF2IP	-0.0485	0.8944
11047	E08	934	83590	TMUB1	-0.0485	0.8944
11036	C08	3603	6610	SMPD2	-0.0484	0.8945
11080	G06	2979	56905	C15orf39	-0.0484	0.8945
31014	G10	12319	9868	TOMM70A	-0.0484	0.8946
11073	G01	8912	9442	MED27	-0.0484	0.8946
51001	B04	54890	100101267	POM121C	-0.0483	0.8947
31017	G09	13265	5570	PKIB	-0.0483	0.8947
11061	C12	217	10964	IFI44L	-0.0483	0.8948
51011	C06	52962	55765	C1orf106	-0.0482	0.8949
11075	B09	5314	79686	C14orf139	-0.0482	0.8950
11040	E05	5705	6726	SRP9	-0.0482	0.8950
11059	C10	7256	245973	ATP6V1C2	-0.0481	0.8951
11020	H06	6000	10602	CDC42EP3	-0.0481	0.8951
11043	B05	5718	4878	NPPA	-0.0481	0.8951
51026	E09	53198	9718	ECE2	-0.0481	0.8951
51033	A11	53604	4616	GADD45B	-0.0481	0.8951
11082	H02	8286	1668	DEFA3	-0.0481	0.8952
11062	G04	10189	3373	HYAL1	-0.0481	0.8952
31041	H02	4060	3182	HNRNPAB	-0.0481	0.8952
31030	F11	14275	55683	KIAA1310	-0.0481	0.8952
11078	G10	7570	221927	C7orf27	-0.0481	0.8952
31032	G10	14733	64102	TNMD	-0.0481	0.8952
51033	E01	55743	1347	COX7A2	-0.0481	0.8953
11083	B09	610	79833	GEMIN6	-0.0481	0.8953
31013	B05	12265	6855	SYP	-0.0481	0.8953
31043	C08	6836	80279	CDK5RAP3	-0.0480	0.8953

51020	D03	56603	6619	SNAPC3	-0.0480	0.8954
11074	C09	5011	84276	NICN1	-0.0480	0.8954
31005	C07	10921	63908	NAPB	-0.0480	0.8954
11087	E06	7172	6512	SLC1A7	-0.0480	0.8954
51005	G08	55043	391123	VSIG8	-0.0480	0.8954
11084	D05	273	2287	FKBP3	-0.0480	0.8955
31034	H01	15010	201181	ZNF385C	-0.0479	0.8955
11028	E01	2845	92840	REEP6	-0.0479	0.8955
51013	E10	52986	22863	ATG14	-0.0479	0.8955
11088	C05	9792	124222	PAQR4	-0.0479	0.8955
51029	F04	55916	56997	CABC1	-0.0479	0.8956
31032	D02	14511	84163	GTF2IRD2	-0.0479	0.8956
31032	D05	14659	54487	DGCR8	-0.0479	0.8957
51021	H08	13996	8807	IL18RAP	-0.0478	0.8958
11024	E04	8234	170063	CXorf22	-0.0478	0.8958
11003	F11	8464	123228	SENP8	-0.0478	0.8958
11039	A06	1572	54521	WDR44	-0.0477	0.8959
11051	C11	954	10897	YIF1A	-0.0477	0.8959
31002	F10	10640	79673	ZNF329	-0.0477	0.8960
11036	H11	9582	57657	HCN3	-0.0477	0.8960
31005	D09	11212	27097	TAF5L	-0.0477	0.8960
11085	E02	8255	28663	TRAV20	-0.0476	0.8962
31020	H04	12878	64208	POPDC3	-0.0476	0.8962
11087	C11	4569	84445	LZTS2	-0.0476	0.8962
11030	F09	5122	81555	YIPF5	-0.0475	0.8963
11044	D01	8140	54951	COMMD8	-0.0475	0.8963
11065	F08	1461	8854	ALDH1A2	-0.0475	0.8963
11071	F08	9361	79932	KIAA0319L	-0.0475	0.8963
31036	C06	11608	10908	PNPLA6	-0.0475	0.8964
31019	F10	13163	6194	RPS6	-0.0474	0.8966
11012	G06	5860	54920	DUS2L	-0.0474	0.8967
31041	D05	5702	6605	SMARCE1	-0.0473	0.8967
31027	C11	14817	83538	TTC25	-0.0473	0.8968
11088	B07	1196	8326	FZD9	-0.0473	0.8968
11052	H11	5197	90589	ZNF625	-0.0472	0.8970
11047	E04	944	54940	OCIAD1	-0.0472	0.8970
11062	F11	4131	2026	ENO2	-0.0472	0.8970
51008	E11	56229	23086	EXPH5	-0.0472	0.8970
11081	F03	7374	10793	ZNF273	-0.0472	0.8970
11058	E10	8155	92999	ZBTB47	-0.0472	0.8971
51035	H10	54503	5150	PDE7A	-0.0471	0.8971
11078	D10	2070	204851	HIPK1	-0.0471	0.8972
11005	B06	9318	5155	PDGFB	-0.0471	0.8972
51006	C03	55821	170384	FUT11	-0.0471	0.8972

31031	E10	14603	9293	GPR52	-0.0471	0.8973
31003	B07	10335	127435	PODN	-0.0471	0.8973
11087	F12	5428	55023	PHIP	-0.0471	0.8973
11086	G02	6928	56941	C3orf37	-0.0471	0.8973
31017	H09	12930	2996	GYPE	-0.0471	0.8973
31007	F10	11680	10406	WFDC2	-0.0470	0.8974
11082	G01	9085	151194	FAM119A	-0.0470	0.8974
31006	E12	11081	91526	ANKRD44	-0.0470	0.8975
11072	G05	9829	29915	HCFC2	-0.0470	0.8975
31004	B06	11051	492303	GEMIN8P4	-0.0470	0.8975
11024	C08	4658	6897	TARS	-0.0469	0.8976
11069	G01	6853	8930	MBD4	-0.0469	0.8976
11008	G09	699	29968	PSAT1	-0.0469	0.8977
51020	G06	55921	114824	PNMA5	-0.0469	0.8977
11016	H03	5484	6119	RPA3	-0.0468	0.8978
11001	B03	106	404266	LOC404266	-0.0468	0.8979
11025	E04	10142	729	C6	-0.0468	0.8979
11088	H08	2937	84894	LINGO1	-0.0467	0.8980
11017	E05	7698	1030	CDKN2B	-0.0467	0.8980
51006	H04	54483	26045	LRRTM2	-0.0467	0.8980
31029	H11	14290	22929	SEPHS1	-0.0467	0.8981
11029	C05	3288	79003	MIS12	-0.0467	0.8981
51006	D10	55051	79642	ARSJ	-0.0467	0.8981
51003	G09	52998	148231	FLJ25328	-0.0467	0.8981
11020	A10	7732	57002	C7orf36	-0.0466	0.8982
11053	F03	101	51115	FAM82B	-0.0466	0.8982
51001	E11	55101	388403	YPEL2	-0.0466	0.8983
31042	H10	5561	27430	MAT2B	-0.0466	0.8983
51003	E01	52645	144360	C12orf67	-0.0466	0.8983
11079	B02	5976	9787	DLGAP5	-0.0466	0.8983
31042	C08	4981	2055	CLN8	-0.0466	0.8983
51027	B10	55550	259307	IL4I1	-0.0466	0.8983
11078	E09	2036	119437	CTAGEP	-0.0465	0.8984
11066	F11	1003	23678	SGK3	-0.0465	0.8984
31044	E04	4571	10491	CRTAP	-0.0465	0.8984
11087	H10	5350	10300	KATNB1	-0.0465	0.8984
11044	D11	7319	92610	TIFA	-0.0465	0.8985
11027	F09	8059	57642	COL20A1	-0.0465	0.8985
51018	G11	55942	90273	CEACAM21	-0.0464	0.8986
51024	F04	55175	3480	IGF1R	-0.0464	0.8987
11048	B08	2869	23474	ETHE1	-0.0464	0.8987
11067	B12	617	6472	SHMT2	-0.0463	0.8988
51028	B02	55390	7639	ZNF85	-0.0463	0.8988
31004	F03	10542	160851	DGKH	-0.0463	0.8989

31043	D07	7826	2517	FUCA1	-0.0463	0.8989
11021	F05	8871	4241	MF12	-0.0463	0.8989
11088	C03	5674	54951	COMMD8	-0.0463	0.8990
31012	H01	12148	150147	C21orf128	-0.0463	0.8990
11078	G04	7104	26	ABP1	-0.0462	0.8991
31007	G03	10885	6660	SOX5	-0.0462	0.8991
11078	F10	6143	90799	CCDC45	-0.0462	0.8991
31007	A05	10884	3141	HLCS	-0.0462	0.8991
11046	H10	3913	9741	LAPTM4A	-0.0462	0.8992
11085	B07	14	51507	C20orf43	-0.0461	0.8993
11049	E03	3059	3553	IL1B	-0.0461	0.8993
11063	B08	2943	79624	C6orf211	-0.0461	0.8993
51004	C09	54581	79839	CCDC102B	-0.0461	0.8994
11020	A02	7418	57393	TMEM27	-0.0460	0.8994
11012	A09	7642	3190	HNRNPK	-0.0460	0.8995
11009	G09	426	64222	TOR3A	-0.0460	0.8996
31013	D07	12126	55012	PPP2R3C	-0.0459	0.8996
11042	G09	4349	8712	PAGE1	-0.0459	0.8996
31010	G08	11612	253943	YTHDF3	-0.0459	0.8996
51001	B02	54937	497048	KU-MEL-3	-0.0459	0.8996
51002	B08	53495	3906	LALBA	-0.0459	0.8997
11021	D10	8955	51564	HDAC7	-0.0459	0.8997
51026	D11	15011	64787	EPS8L2	-0.0459	0.8997
51033	D11	54421	129852	C2orf73	-0.0459	0.8997
51032	D12	55322	389741	MGC21881	-0.0459	0.8998
11002	A11	330	7305	TYROBP	-0.0459	0.8998
31042	F01	4411	51531	C9orf156	-0.0459	0.8998
11038	D11	5819	22948	CCT5	-0.0459	0.8998
11017	A12	6065	113246	C12orf57	-0.0458	0.8999
51006	B09	53350	57209	ZNF248	-0.0458	0.8999
11007	C06	6595	51073	MRPL4	-0.0458	0.8999
31040	G03	9732	169981	SPIN3	-0.0458	0.8999
11078	D08	6673	1186	CLCN7	-0.0458	0.8999
31039	A03	9315	9921	RNF10	-0.0458	0.9000
11029	E10	925	55233	MOBKL1B	-0.0458	0.9000
31033	F11	14957	118471	PRAP1	-0.0458	0.9000
11061	F07	5505	1358	CPA2	-0.0457	0.9000
31024	G10	13639	79083	MLPH	-0.0457	0.9001
51021	H07	56055	80110	ZNF614	-0.0457	0.9001
11035	F01	9894	57863	CADM3	-0.0457	0.9001
51002	D05	52564	163590	TOR1AIP2	-0.0457	0.9001
31020	H09	13220	56670	SUCNR1	-0.0457	0.9001
31001	A04	10333	51714	SELT	-0.0457	0.9001
51022	H04	56092	84678	KDM2B	-0.0457	0.9001

11039	D03	7043	1877	E4F1	-0.0457	0.9001
11040	E04	5973	63905	MANBAL	-0.0457	0.9002
11035	F05	2401	3988	LIPA	-0.0456	0.9003
51015	F12	54172	55509	BATF3	-0.0456	0.9003
31031	E09	14579	2844	GPR21	-0.0455	0.9004
11043	A03	5471	4632	MYL1	-0.0455	0.9004
31045	H04	7993	6170	RPL39	-0.0455	0.9005
51003	E12	55620	64417	C5orf28	-0.0455	0.9006
31004	F12	11272	124641	OVCA2	-0.0455	0.9006
11086	F11	6670	3134	HLA-F	-0.0455	0.9006
31031	C09	14591	2832	NPBWR2	-0.0455	0.9006
11071	D10	842	660	BMX	-0.0455	0.9006
51027	D10	56325	26051	PPP1R16B	-0.0454	0.9007
31025	E11	13983	2169	FABP2	-0.0454	0.9007
11005	A10	467	54550	NECAB2	-0.0454	0.9007
51013	B05	54434	102	ADAM10	-0.0454	0.9007
31045	G02	4927	84515	MCM8	-0.0454	0.9007
51022	D10	56189	94134	ARHGAP12	-0.0454	0.9008
11041	E03	1099	148223	C19orf25	-0.0454	0.9008
11028	A11	1156	8153	RND2	-0.0454	0.9008
11088	D10	1568	5042	PABPC3	-0.0454	0.9008
31028	F10	14157	125336	LOXHD1	-0.0453	0.9009
11021	G03	4071	5515	PPP2CA	-0.0453	0.9009
11084	A08	2872	4762	NEUROG1	-0.0453	0.9009
11082	A01	3234	1340	COX6B1	-0.0453	0.9009
31040	D05	10074	55686	MREG	-0.0453	0.9009
11085	B06	2504	83541	FAM110A	-0.0453	0.9010
11078	H07	6504	26958	COPG2	-0.0452	0.9011
11072	B06	6806	8985	PLOD3	-0.0452	0.9011
51034	F05	53827	283165	PRR10	-0.0452	0.9011
11074	G11	1388	93081	C13orf27	-0.0452	0.9012
31004	C11	10999	153743	PPP1R2P3	-0.0452	0.9012
11049	E01	6268	57798	GATAD1	-0.0452	0.9012
51006	H03	54190	3887	KRT81	-0.0452	0.9012
11064	C02	2863	5781	PTPN11	-0.0452	0.9012
51028	B01	55454	1370	CPN2	-0.0452	0.9012
11042	F03	5982	23406	COTL1	-0.0451	0.9013
11040	E07	2209	414149	ACBD7	-0.0451	0.9013
31034	G01	14842	56246	MRAP	-0.0451	0.9014
51009	C03	52692	26050	SLITRK5	-0.0451	0.9014
11079	B05	5903	27044	SND1	-0.0451	0.9014
31030	G10	14304	730	C7	-0.0451	0.9014
11078	B10	8675	27332	ZNF638	-0.0451	0.9015
11017	B07	9185	81544	GDPD5	-0.0450	0.9016

31013	C04	12307	152137	CCDC50	-0.0450	0.9016
11043	G04	4955	27129	HSPB7	-0.0450	0.9016
11022	G11	7478	9813	KIAA0494	-0.0449	0.9017
11002	A12	2805	9616	RNF7	-0.0449	0.9017
31026	H07	13870	7200	TRH	-0.0449	0.9018
11067	G03	6306	9873	FCHSD2	-0.0449	0.9019
11001	H10	8620	56965	PARP6	-0.0449	0.9019
11013	F03	3754	9099	USP2	-0.0449	0.9019
31017	G02	12789	6470	SHMT1	-0.0449	0.9019
11070	E12	329	26276	VPS33B	-0.0448	0.9019
11046	E12	3314	1933	EEF1B2	-0.0448	0.9020
11088	B08	1076	5768	QSOX1	-0.0448	0.9020
31016	A02	12429	1936	EEF1D	-0.0448	0.9020
11060	A12	4093	79148	MMP28	-0.0448	0.9020
31041	H06	5957	1655	DDX5	-0.0448	0.9020
11084	A11	7033	84232	MAF1	-0.0448	0.9020
11003	A10	9742	6391	SDHC	-0.0448	0.9020
11071	E06	1437	84078	KBTBD7	-0.0447	0.9021
51029	H09	56469	83957	FKSG43	-0.0447	0.9022
11084	E12	5361	51073	MRPL4	-0.0447	0.9022
11024	A10	4205	55249	YY1AP1	-0.0447	0.9022
11046	E09	8941	80347	COASY	-0.0447	0.9023
11039	H02	1720	152330	CNTN4	-0.0446	0.9023
11071	C12	8341	114822	RHPN1	-0.0446	0.9023
11045	D05	108	9275	BCL7B	-0.0446	0.9024
11083	A04	1021	1735	DIO3	-0.0446	0.9024
31042	G07	6919	50813	COPS7A	-0.0446	0.9025
51026	F06	56916	3690	ITGB3	-0.0445	0.9026
11038	D04	5823	2886	GRB7	-0.0445	0.9026
11079	E05	1355	23395	LARS2	-0.0445	0.9027
31001	F12	10709	283471	TMPRSS12	-0.0445	0.9027
31025	D01	13391	10318	TNIP1	-0.0445	0.9027
31003	D09	10440	54674	LRRN3	-0.0445	0.9027
51003	G04	54699	1485	CTAG1B	-0.0444	0.9028
11009	D01	338	23259	DDHD2	-0.0444	0.9028
11002	C12	9500	93380	MMGT1	-0.0444	0.9028
51003	D05	52711	155051	CRYGN	-0.0444	0.9029
11081	G01	9147	84677	DSCR8	-0.0443	0.9030
11072	A03	1576	5990	RFX2	-0.0443	0.9030
31006	H06	11230	83786	FRMD8	-0.0443	0.9031
51002	E09	52778	283651	C15orf21	-0.0443	0.9031
11030	G08	9890	3123	HLA-DRB1	-0.0442	0.9031
11070	C02	10206	89858	SIGLEC12	-0.0442	0.9032
51009	F10	54835	80204	FBXO11	-0.0442	0.9032

51029	E10	55247	4938	OAS1	-0.0442	0.9032
11080	H01	4957	6904	TBCD	-0.0442	0.9032
11028	A09	3598	9802	DAZAP2	-0.0442	0.9032
11035	A05	1499	92483	LDHAL6B	-0.0442	0.9032
11026	H10	3261	10815	CPLX1	-0.0442	0.9032
11069	H11	6512	7337	UBE3A	-0.0442	0.9033
11082	A10	7010	5201	PFDN1	-0.0442	0.9033
11003	D10	5681	8048	CSRP3	-0.0441	0.9034
51005	A02	54324	195828	ZNF367	-0.0441	0.9034
11045	C09	460	83549	UCK1	-0.0441	0.9035
31008	D01	11752	170685	NUDT10	-0.0441	0.9035
11026	A06	8825	4493	MTIE	-0.0440	0.9036
11037	B09	8831	84720	PIGO	-0.0440	0.9037
11001	D08	2765	79015	LOC79015	-0.0439	0.9038
31040	A01	8758	480	ATP1A4	-0.0439	0.9038
31030	C02	14466	5700	PSMC1	-0.0439	0.9038
31020	B09	12973	55610	CCDC132	-0.0439	0.9038
51013	D04	54987	150159	NHEDC1	-0.0439	0.9039
51012	B06	54159	344805	TMPRSS7	-0.0439	0.9039
11084	C11	137	9342	SNAP29	-0.0439	0.9039
31042	A03	6624	84221	C21orf56	-0.0439	0.9040
11028	E08	3432	51659	GIN52	-0.0438	0.9040
11070	F02	6031	79796	ALG9	-0.0438	0.9040
11025	A03	4383	8078	USP5	-0.0438	0.9041
31019	E03	12838	10611	PDLIM5	-0.0438	0.9041
51033	A02	56451	140832	WFDC10A	-0.0438	0.9041
51023	E04	56693	26267	FBXO10	-0.0438	0.9042
11089	F02	9285	4950	OCLN	-0.0437	0.9042
51035	A09	54645	93109	TMEM44	-0.0437	0.9042
31013	H05	12034	1646	AKR1C2	-0.0437	0.9043
51003	A12	52725	50964	SOST	-0.0437	0.9043
11075	D01	2580	345757	FAM174A	-0.0437	0.9043
51020	C02	55808	162494	RHBDL3	-0.0437	0.9043
31031	G09	14628	79922	MRM1	-0.0436	0.9045
11040	C03	8552	23480	SEC61G	-0.0436	0.9045
11008	H07	5461	51601	LIPT1	-0.0436	0.9045
11070	G06	10213	23127	GLT25D2	-0.0436	0.9045
31021	E04	13002	6906	SERPINA7	-0.0436	0.9045
31020	F11	12937	1088	CEACAM8	-0.0435	0.9046
51006	B11	55642	112574	SNX18	-0.0435	0.9046
11032	B05	6445	10621	POLR3F	-0.0435	0.9046
51001	C06	52908	285888	CNPY1	-0.0435	0.9047
11083	F08	9343	51161	C3orf18	-0.0435	0.9047
31004	E08	11049	84545	MRPL43	-0.0435	0.9047

11078	B04	7808	29062	WDR91	-0.0435	0.9047
11004	E01	2860	56952	PRTFDC1	-0.0434	0.9049
31028	C07	14182	64135	IFIH1	-0.0434	0.9049
51025	B09	56210	4293	MAP3K9	-0.0434	0.9050
31038	G01	14724	138241	C9orf85	-0.0434	0.9050
31038	A05	14611	1571	CYP2E1	-0.0434	0.9050
31042	F04	5007	84277	DNAJC30	-0.0433	0.9050
11009	E02	6725	57332	CBX8	-0.0433	0.9051
11064	F09	7360	6916	TBXAS1	-0.0433	0.9052
11040	H03	8944	27130	INVS	-0.0432	0.9053
51004	D03	52811	200909	HTR3D	-0.0432	0.9053
11043	E02	4865	93659	CGB5	-0.0432	0.9053
31044	D08	10067	11234	HPS5	-0.0432	0.9054
11061	A12	1952	1527	TEX28	-0.0432	0.9054
11001	G07	2746	28972	SPCS1	-0.0431	0.9054
31039	G11	5380	55764	IFT122	-0.0431	0.9055
31003	A05	10661	152789	JAKMIP1	-0.0431	0.9056
11027	D12	8599	55959	SULF2	-0.0431	0.9056
11070	D08	9260	79767	ELMO3	-0.0431	0.9056
11068	H08	7046	55037	PTCD3	-0.0430	0.9057
31041	D11	4223	79413	ZBED2	-0.0430	0.9057
51014	H10	53021	2957	GTF2A1	-0.0430	0.9057
11058	A10	7311	91252	SLC39A13	-0.0430	0.9057
51006	D07	54516	79989	TTC26	-0.0430	0.9057
11009	F01	3651	9827	RGP1	-0.0429	0.9058
31029	D05	14234	10903	MTMR11	-0.0429	0.9059
11032	F04	9584	51548	SIRT6	-0.0429	0.9059
11003	G04	8589	84895	FAM73B	-0.0429	0.9059
51032	C08	55967	474382	H2AFB1	-0.0429	0.9059
11038	C07	5876	9128	PRPF4	-0.0429	0.9059
51001	E08	54935	5197	PF4V1	-0.0429	0.9060
31032	F05	14545	23092	ARHGAP26	-0.0429	0.9060
11024	H05	9986	2009	EML1	-0.0428	0.9061
11058	D09	968	29968	PSAT1	-0.0428	0.9061
31042	H03	6283	3821	KLRC1	-0.0428	0.9062
11020	D01	5051	84303	CHCHD6	-0.0428	0.9062
31017	D04	12639	3500	IGHG1	-0.0427	0.9063
31014	B03	12024	81545	FBXO38	-0.0427	0.9063
11013	A07	6024	2962	GTF2F1	-0.0427	0.9063
31001	D02	10254	10476	ATP5H	-0.0427	0.9064
11078	H06	6170	2036	EPB41L1	-0.0426	0.9065
51026	B12	56929	57715	SEMA4G	-0.0426	0.9066
51022	H06	56650	8749	ADAM18	-0.0426	0.9066
11005	D08	1892	221687	RNF182	-0.0426	0.9066

51015	B04	52687	50650	ARHGEF3	-0.0426	0.9066
51017	E02	56613	4061	LY6E	-0.0426	0.9067
11054	F03	2026	91544	UBXN11	-0.0425	0.9067
31041	G05	6713	80021	TMEM62	-0.0425	0.9067
11019	E12	7636	200420	ALMS1P	-0.0425	0.9067
11055	F05	5156	30815	ST6GALNAC6	-0.0425	0.9067
11004	E06	504	2706	GJB2	-0.0425	0.9067
51033	F07	54136	219348	PLAC9	-0.0425	0.9068
11075	E03	2524	10857	PGRMC1	-0.0424	0.9069
11078	A07	7142	9610	RIN1	-0.0424	0.9069
11067	E11	1333	526	ATP6V1B2	-0.0424	0.9069
11045	C10	9253	2978	GUCA1A	-0.0424	0.9070
31028	E11	14141	80208	SPG11	-0.0424	0.9070
51024	A04	55185	56946	C11orf30	-0.0424	0.9071
31040	B05	10184	149840	C20orf196	-0.0423	0.9072
11080	A09	7339	7297	TYK2	-0.0423	0.9072
11073	H03	4397	79170	PRR15L	-0.0423	0.9072
11083	E07	8764	91653	BOC	-0.0423	0.9072
11070	A02	1942	56474	CTPS2	-0.0423	0.9073
11059	E01	2291	23620	NTSR2	-0.0423	0.9073
11083	C01	1150	158046	NXNL2	-0.0422	0.9073
31037	H03	12412	3843	IPO5	-0.0422	0.9074
11038	G04	5910	1621	DBH	-0.0421	0.9075
11022	C04	7721	28513	CDH19	-0.0421	0.9075
31029	H05	14191	9731	KIAA0562	-0.0421	0.9076
11016	H01	6370	29058	C20orf30	-0.0421	0.9076
11066	G10	7086	1196	CLK2	-0.0421	0.9076
31008	F05	11537	149986	LSM14B	-0.0421	0.9076
51015	E04	53125	83795	KCNK16	-0.0421	0.9077
31012	C06	12208	51290	ERGIC2	-0.0420	0.9077
11076	G07	4469	5174	PDZK1	-0.0420	0.9078
11054	C05	343	7965	AIMP2	-0.0420	0.9079
11025	G10	2357	23228	PLCL2	-0.0419	0.9079
51026	F04	55965	283455	KSR2	-0.0419	0.9080
11002	A07	477	8724	SNX3	-0.0419	0.9080
11046	G11	2657	8609	KLF7	-0.0419	0.9080
11052	A02	3469	1017	CDK2	-0.0419	0.9080
11017	G01	6350	3047	HBG1	-0.0419	0.9080
51006	D12	54298	9154	SLC28A1	-0.0419	0.9081
11043	E01	6482	130340	AP1S3	-0.0418	0.9082
11066	F10	9333	80704	SLC19A3	-0.0418	0.9082
11005	A06	5440	1908	EDN3	-0.0418	0.9083
51013	G07	53136	57217	TTC7A	-0.0417	0.9084
11079	C01	1920	23660	ZKSCAN5	-0.0417	0.9084

11080	H11	4289	2956	MSH6	-0.0417	0.9084
11067	H07	1279	4129	MAOB	-0.0417	0.9085
11040	E12	8949	23085	ERC1	-0.0417	0.9085
51021	G05	55829	10794	ZNF460	-0.0416	0.9086
31001	A10	10538	119392	C10orf78	-0.0416	0.9086
51008	E04	53533	3918	LAMC2	-0.0416	0.9086
11051	E12	2127	3131	HLF	-0.0416	0.9086
11055	A02	1444	285237	C3orf38	-0.0416	0.9087
51006	G05	53450	847	CAT	-0.0416	0.9087
31005	B10	10861	84061	MAGT1	-0.0415	0.9088
11043	H11	7326	81888	HYI	-0.0415	0.9088
51001	A11	52608	283982	C17orf54	-0.0415	0.9089
11055	D07	5890	80212	CCDC92	-0.0415	0.9089
51029	C06	56458	1814	DRD3	-0.0414	0.9090
31024	D10	13437	6242	RTKN	-0.0414	0.9090
31018	A01	13157	137196	CCDC26	-0.0414	0.9091
51006	D01	53860	58524	DMRT3	-0.0414	0.9091
11087	A04	7582	5127	CDK16	-0.0414	0.9091
11015	C02	5500	4502	MT2A	-0.0414	0.9091
11030	B05	3180	8260	NAA10	-0.0414	0.9092
51020	A11	56589	1559	CYP2C9	-0.0413	0.9092
11088	H05	9556	284521	OR2L13	-0.0413	0.9093
51002	D09	54714	493901	RNASE12	-0.0413	0.9093
31042	D07	5519	10556	RPP30	-0.0413	0.9093
31006	G11	10967	11001	SLC27A2	-0.0413	0.9094
31031	B11	14593	11250	GPR45	-0.0413	0.9094
31004	E01	10487	2913	GRM3	-0.0413	0.9094
31023	E05	13637	5699	PSMB10	-0.0412	0.9094
11037	E07	8067	23624	CBLC	-0.0412	0.9095
31009	B03	11774	51105	PHF20L1	-0.0412	0.9095
51027	H05	53170	84342	COG8	-0.0412	0.9095
11042	E10	6787	56993	TOMM22	-0.0412	0.9096
11059	C01	9897	55803	ADAP2	-0.0411	0.9096
51023	B03	56187	1663	DDX11	-0.0411	0.9096
11083	E05	696	79669	C3orf52	-0.0411	0.9096
11039	F10	8070	3796	KIF2A	-0.0411	0.9096
11030	C11	6477	7172	TPMT	-0.0411	0.9096
31038	E05	14287	5430	POLR2A	-0.0411	0.9096
11079	F03	3202	8940	TOP3B	-0.0411	0.9096
31017	B04	12721	3500	IGHG1	-0.0411	0.9097
31030	E12	14453	64151	NCAPG	-0.0411	0.9097
11079	D02	2081	143689	PIWIL4	-0.0411	0.9098
11083	D03	1616	441046	LOC441046	-0.0411	0.9098
51023	G05	54374	93649	MYOCD	-0.0410	0.9098

31011	H07	12203	159091	FAM122C	-0.0410	0.9098
51023	F09	56064	9101	USP8	-0.0410	0.9099
11012	E02	4264	7205	TRIP6	-0.0410	0.9099
11019	F09	9161	80321	CEP70	-0.0410	0.9099
51013	E08	54051	51091	SEPSECS	-0.0410	0.9099
51001	E05	52650	27290	SPINK4	-0.0410	0.9099
31005	H07	10862	256435	ST6GALNAC3	-0.0410	0.9100
31026	D02	14017	2695	GIP	-0.0410	0.9100
11055	B02	4096	770	CA11	-0.0410	0.9100
31025	D04	13611	9819	TSC22D2	-0.0410	0.9100
31002	A04	10462	84991	RBM17	-0.0409	0.9100
11040	A02	5334	84973	SNHG7	-0.0409	0.9102
51029	B05	55512	201243	C17orf74	-0.0409	0.9102
11017	C08	9107	79148	MMP28	-0.0408	0.9103
11037	D01	3139	10856	RUVBL2	-0.0408	0.9104
11034	D03	8763	29028	ATAD2	-0.0408	0.9104
11087	H09	1801	54529	ASNSD1	-0.0408	0.9104
11047	E09	5335	5373	PMM2	-0.0408	0.9104
31022	C06	13544	118429	ANTXR2	-0.0408	0.9104
11012	B10	6849	1431	CS	-0.0407	0.9104
51009	B09	53102	4306	NR3C2	-0.0407	0.9105
31012	D01	11918	138241	C9orf85	-0.0407	0.9105
51010	A11	54957	159195	USP54	-0.0407	0.9105
51013	B09	52737	66035	SLC2A11	-0.0407	0.9105
31003	D05	10618	23390	ZDHHC17	-0.0407	0.9106
11022	B03	7790	2319	FLOT2	-0.0407	0.9106
11030	C12	10246	144608	C12orf60	-0.0407	0.9106
31013	A09	12331	25875	LETMD1	-0.0406	0.9108
31008	D07	11645	4817	NIT1	-0.0406	0.9108
31038	B12	9960	284406	ZFP82	-0.0406	0.9108
11026	E01	8434	116349	C5orf55	-0.0406	0.9108
51032	D08	55517	132720	C4orf32	-0.0406	0.9108
51005	G10	54162	168975	CNBD1	-0.0406	0.9108
11006	E04	9092	23001	WDFY3	-0.0405	0.9109
11043	C01	8951	84775	ZNF607	-0.0405	0.9109
31039	G05	2851	54494	C11orf71	-0.0405	0.9109
31017	H07	12888	439935	MGC24125	-0.0405	0.9109
51028	E09	56397	6524	SLC5A2	-0.0405	0.9109
11038	E11	5908	10801	SEPT9	-0.0405	0.9109
11039	F01	2359	5579	PRKCB	-0.0405	0.9110
31036	F03	11083	63979	FIGNL1	-0.0405	0.9110
11055	E07	2412	6484	ST3GAL4	-0.0404	0.9111
31016	G09	12791	79848	CSPP1	-0.0404	0.9111
11027	A10	107	5216	PFN1	-0.0404	0.9111

11083	C10	9448	84691	FAM71F1	-0.0404	0.9112
11025	B09	5089	57231	SNX14	-0.0404	0.9112
11062	E04	1876	1983	EIF5	-0.0403	0.9113
51009	G05	54015	54828	BCAS3	-0.0403	0.9113
51005	H08	53737	8419	BFSP2	-0.0403	0.9114
51033	E12	53464	113444	C1orf212	-0.0403	0.9114
11006	A10	3998	5692	PSMB4	-0.0403	0.9114
11087	D03	1614	51167	CYB5R4	-0.0402	0.9115
11066	C11	6923	54815	GATAD2A	-0.0402	0.9115
51032	E07	53201	401508	FAM74A4	-0.0402	0.9115
11082	C05	2858	26292	MYCBP	-0.0402	0.9115
11074	E07	5498	26578	OSTF1	-0.0402	0.9116
11048	B04	8164	1149	CIDEA	-0.0402	0.9116
31006	F01	11036	339010	POTEB	-0.0401	0.9117
51012	G02	54749	29974	A1CF	-0.0401	0.9117
31017	A11	13048	1401	CRP	-0.0401	0.9118
11075	B12	5598	2641	GCG	-0.0401	0.9119
11061	E09	4216	57136	C20orf3	-0.0401	0.9119
51028	C09	55671	377841	ENTPD8	-0.0401	0.9119
11049	H09	413	573	BAG1	-0.0400	0.9120
11030	E12	4255	29844	TFPT	-0.0400	0.9120
11075	B05	4191	51128	SAR1B	-0.0400	0.9120
11080	F06	7471	23367	LARP1	-0.0400	0.9121
51020	F11	56802	1589	CYP21A2	-0.0400	0.9121
11047	C10	6546	203286	ANKS6	-0.0399	0.9121
51035	G07	53705	220296	HEPACAM	-0.0399	0.9121
51028	H10	7051	23197	FAF2	-0.0399	0.9122
11039	E04	7001	1654	DDX3X	-0.0399	0.9122
11014	F03	2719	10483	SEC23B	-0.0399	0.9122
11035	D05	9421	55064	C9orf68	-0.0399	0.9122
11032	D08	8351	7005	TEAD3	-0.0399	0.9123
31021	B04	12994	9690	UBE3C	-0.0399	0.9123
31023	E10	13563	55739	CARKD	-0.0398	0.9125
11006	D11	4100	79152	FA2H	-0.0398	0.9125
11012	G07	8289	1071	CETP	-0.0397	0.9125
51011	E06	54920	3067	HDC	-0.0397	0.9126
11072	H05	8112	56126	PCDHB10	-0.0397	0.9126
11001	E05	762	7388	UQCRH	-0.0397	0.9126
11027	E11	3604	81873	ARPC5L	-0.0397	0.9127
11018	F04	9048	85464	SSH2	-0.0397	0.9127
11075	C11	4850	84309	NUDT16L1	-0.0397	0.9127
11012	C08	6495	25813	SAMM50	-0.0396	0.9128
11028	C05	3259	51673	TPPP3	-0.0396	0.9128
31023	B09	13508	246330	PELI3	-0.0396	0.9129

31020	E11	13233	3070	HELLS	-0.0396	0.9129
11036	F08	3556	3275	PRMT2	-0.0395	0.9130
51028	A08	55320	115399	LRRC56	-0.0395	0.9130
51003	H04	52891	9464	HAND2	-0.0394	0.9132
31039	F07	929	57826	RAP2C	-0.0394	0.9132
11038	E02	5319	7203	CCT3	-0.0394	0.9133
11067	E10	410	280	AMY2B	-0.0394	0.9133
31021	A04	13074	177	AGER	-0.0393	0.9134
11067	H05	7898	23392	KIAA0368	-0.0393	0.9134
11043	A05	921	6208	RPS14	-0.0393	0.9134
11010	G04	3405	3590	IL11RA	-0.0393	0.9135
11028	H11	5464	25816	TNFAIP8	-0.0393	0.9135
11065	E07	3022	950	SCARB2	-0.0393	0.9135
31019	G09	13283	10436	EMG1	-0.0393	0.9135
11057	E03	9286	1232	CCR3	-0.0393	0.9135
11081	G04	4008	10975	UQCR11	-0.0393	0.9135
11059	F02	10207	57118	CAMK1D	-0.0393	0.9135
11072	H08	2495	126133	ALDH16A1	-0.0393	0.9135
11055	B06	790	54984	PINX1	-0.0392	0.9136
51029	E08	55427	284656	EPHA10	-0.0392	0.9136
11001	E09	341	147525	C18orf18	-0.0392	0.9136
11019	A08	6488	5881	RAC3	-0.0392	0.9136
11038	E09	5249	8659	ALDH4A1	-0.0392	0.9137
11078	E02	6471	23205	ACSBG1	-0.0392	0.9137
11017	B03	9101	10681	GNB5	-0.0392	0.9138
11080	D07	4775	5424	POLD1	-0.0392	0.9138
51031	E09	893	6756	SSX1	-0.0392	0.9138
31003	A07	10665	51809	GALNT7	-0.0391	0.9138
51020	B04	55811	55370	PPP4R1L	-0.0391	0.9138
11053	E04	4319	9424	KCNK6	-0.0390	0.9140
11037	G08	9441	7535	ZAP70	-0.0390	0.9141
31043	B01	5086	80227	PAAF1	-0.0390	0.9141
31009	F05	11434	286530	P2RY8	-0.0390	0.9141
11004	F05	2898	113178	SCAMP4	-0.0390	0.9142
11068	B09	5175	84988	PPP1R16A	-0.0389	0.9142
31015	A09	12802	1579	CYP4A11	-0.0389	0.9142
11006	D10	5524	10456	HAX1	-0.0389	0.9143
51008	G04	53681	134957	STXBP5	-0.0389	0.9143
31014	D04	12092	374403	TBC1D10C	-0.0389	0.9144
11078	B07	7168	899	CCNF	-0.0389	0.9144
31039	D01	3345	10634	GAS2L1	-0.0388	0.9144
11056	C06	8359	80125	CCDC33	-0.0388	0.9144
31001	F11	10308	442670	LOC442670	-0.0388	0.9145
11050	A12	2150	221421	RSPH9	-0.0388	0.9145

51016	C02	53462	96626	LIMS3	-0.0388	0.9145
51028	E12	55438	100132979	GOLGA8DP	-0.0388	0.9146
31018	D04	12842	7178	TPT1	-0.0388	0.9146
31043	H07	7677	221504	ZBTB9	-0.0388	0.9146
11061	H06	4519	29926	GMPPA	-0.0388	0.9146
11088	F02	5583	54819	ZCCHC10	-0.0387	0.9147
51008	A03	56866	89910	UBE3B	-0.0387	0.9147
11042	A02	3346	92815	HIST3H2A	-0.0387	0.9147
11062	G11	2014	92283	ZNF461	-0.0387	0.9147
31017	G01	12634	64744	SMAP2	-0.0387	0.9147
11028	G05	6764	65988	ZNF747	-0.0387	0.9147
31039	H07	8818	23245	ASTN2	-0.0387	0.9148
51012	E06	55006	256957	C17orf66	-0.0386	0.9149
11064	C12	5125	7376	NR1H2	-0.0386	0.9150
11071	E03	9832	56924	PAK6	-0.0385	0.9151
11052	H09	736	64853	AIDA	-0.0385	0.9151
31044	B03	3350	348	APOE	-0.0385	0.9151
51020	F03	56450	5801	PTPRR	-0.0385	0.9151
51004	A06	53610	1038	CDR1	-0.0385	0.9151
51006	E11	53958	114134	SLC2A13	-0.0385	0.9152
11004	C05	662	6648	SOD2	-0.0385	0.9152
11080	A12	1967	22981	NINL	-0.0385	0.9152
11075	A03	9007	4361	MRE11A	-0.0384	0.9154
11010	B12	3725	10206	TRIM13	-0.0384	0.9154
11045	E05	9899	128434	VSTM2L	-0.0384	0.9154
11086	A03	8311	9630	GNA14	-0.0384	0.9155
51008	D01	55202	540	ATP7B	-0.0383	0.9155
11087	G07	7661	3507	IGHM	-0.0383	0.9155
11008	A05	6516	3726	JUNB	-0.0383	0.9156
11020	E01	3958	7106	TSPAN4	-0.0383	0.9157
11084	E04	9711	23125	CAMTA2	-0.0382	0.9158
11077	E01	1034	57102	C12orf4	-0.0382	0.9158
51026	H10	55678	11194	ABCB8	-0.0382	0.9158
31040	H03	9916	2207	FCER1G	-0.0382	0.9159
11008	D02	3035	54491	FAM105A	-0.0381	0.9160
11007	D05	1799	5307	PITX1	-0.0381	0.9160
31025	A01	13674	2147	F2	-0.0381	0.9161
51026	G05	53308	1804	DPP6	-0.0381	0.9161
11063	E10	4941	4247	MGAT2	-0.0381	0.9161
51006	D11	54053	112574	SNX18	-0.0381	0.9161
51032	E01	55337	114827	FHAD1	-0.0381	0.9161
11011	G02	3103	27175	TUBG2	-0.0380	0.9162
11019	F02	9055	51322	WAC	-0.0380	0.9162
51003	D09	54983	400511	FLJ45256	-0.0380	0.9162

31029	B09	14351	NA	NA	-0.0380	0.9162
11029	B03	4727	83755	KRTAP4-12	-0.0380	0.9163
51027	E12	53382	203190	LGI3	-0.0380	0.9163
31026	H06	13888	4084	MXD1	-0.0380	0.9163
31040	B08	10118	92170	MTG1	-0.0380	0.9163
11063	C02	10011	7289	TULP3	-0.0379	0.9163
51004	C04	53825	283165	PRR10	-0.0379	0.9164
11028	E07	3347	4201	MEA1	-0.0379	0.9164
51012	E04	55098	731	C8A	-0.0379	0.9164
11018	H06	9063	55788	LMBRD1	-0.0379	0.9165
11003	E08	9047	81559	TRIM11	-0.0379	0.9165
11055	C11	8611	51061	TXNDC11	-0.0378	0.9165
51033	G02	56945	284184	C17orf89	-0.0378	0.9166
11081	E12	1192	91368	CDKN2AIPNL	-0.0378	0.9166
51013	E01	55004	248	ALPI	-0.0378	0.9166
11070	A04	9681	1407	CRY1	-0.0378	0.9167
11088	D09	1088	64283	RGNEF	-0.0377	0.9167
31005	F10	11154	65061	CDK15	-0.0377	0.9169
31004	C10	11022	119180	LYZL2	-0.0377	0.9169
11015	C12	5333	85009	MGC16025	-0.0376	0.9170
31045	G03	4962	51512	GTSE1	-0.0376	0.9171
11060	B06	4057	1846	DUSP4	-0.0376	0.9171
51014	G08	52780	254187	TSGA10IP	-0.0376	0.9172
31007	A09	12070	23178	PASK	-0.0375	0.9172
51008	C08	53918	316	AOX1	-0.0375	0.9172
11024	F07	3224	6774	STAT3	-0.0375	0.9172
31018	B03	12858	5359	PLSCR1	-0.0375	0.9172
51015	H08	53039	670	BPHL	-0.0375	0.9173
51013	A10	52703	51380	CSAD	-0.0375	0.9173
31006	D03	11020	347918	EP400NL	-0.0375	0.9173
31031	E02	14475	9502	XAGE2	-0.0375	0.9173
11057	G05	1064	2553	GABPB1	-0.0375	0.9173
51029	G01	53163	219899	TBCEL	-0.0375	0.9174
11057	E04	7369	79577	CDC73	-0.0374	0.9174
11046	F12	2604	60685	ZFAND3	-0.0374	0.9175
11053	H06	3120	10399	GNB2L1	-0.0374	0.9175
11020	D08	5364	84259	DCUN1D5	-0.0374	0.9175
51029	B02	55662	400566	C17orf97	-0.0374	0.9175
11007	D08	4028	6175	RPLP0	-0.0374	0.9175
11001	B06	144	4707	NDUFB1	-0.0374	0.9175
11051	E05	2865	6423	SFRP2	-0.0374	0.9176
11047	D02	9162	83932	C1orf124	-0.0374	0.9176
11017	A08	6972	64968	MRPS6	-0.0374	0.9176
11071	F07	1889	26234	FBXL5	-0.0374	0.9176

31034	F02	14937	441521	CT45A5	-0.0373	0.9177
11089	D03	1108	3937	LCP2	-0.0373	0.9177
31034	C07	14911	5446	PON3	-0.0372	0.9178
11072	G11	7965	55737	VPS35	-0.0372	0.9179
11029	D04	7156	64782	AEN	-0.0372	0.9179
31026	A01	14006	796	CALCA	-0.0372	0.9179
31028	H09	14163	57496	MKL2	-0.0372	0.9180
31038	F04	14259	10048	RANBP9	-0.0372	0.9180
11058	G02	8206	54751	FBLIM1	-0.0371	0.9180
31022	B07	13413	84331	FAM195A	-0.0371	0.9180
51034	A11	53871	26538	OR10H2	-0.0371	0.9181
11046	H01	8303	81618	ITM2C	-0.0371	0.9181
51028	E01	55282	10841	FTCD	-0.0371	0.9181
11072	F02	1769	117144	CATSPER1	-0.0371	0.9182
11042	B12	8946	5098	PCDHGC3	-0.0370	0.9183
11045	E01	6679	1398	CRK	-0.0370	0.9183
11063	F01	1181	11006	LILRB4	-0.0370	0.9183
51008	E07	53461	9640	ZNF592	-0.0370	0.9183
11008	H10	7037	2752	GLUL	-0.0370	0.9184
11070	E05	9254	164592	CCDC116	-0.0370	0.9184
11078	B01	6073	9188	DDX21	-0.0370	0.9184
11021	F11	3437	9783	RIMS3	-0.0369	0.9185
11071	C08	8505	26137	ZBTB20	-0.0369	0.9185
11029	H05	10033	6629	SNRPB2	-0.0369	0.9186
51020	C05	56361	5931	RBBP7	-0.0369	0.9186
11024	D11	8310	9053	MAP7	-0.0369	0.9186
51011	H05	54781	140690	CTCFL	-0.0369	0.9186
11062	C06	9964	24139	EML2	-0.0369	0.9186
11056	H09	1138	202559	KHDRBS2	-0.0369	0.9186
31024	E02	13323	6406	SEMG1	-0.0369	0.9186
11027	E09	3125	4830	NME1	-0.0369	0.9186
11078	E03	6889	8943	AP3D1	-0.0368	0.9187
51031	D02	1022	1944	EFNA3	-0.0368	0.9187
51001	H06	52579	64648	SPANXD	-0.0368	0.9187
11061	F12	3041	7108	TM7SF2	-0.0367	0.9189
31012	D07	12139	81889	FAHD1	-0.0367	0.9190
31043	G06	6721	57693	ZNF317	-0.0367	0.9190
51027	F11	53383	7748	ZNF195	-0.0367	0.9190
11039	H06	5263	4605	MYBL2	-0.0367	0.9190
51030	E01	55349	10113	PREB	-0.0367	0.9190
11075	C01	858	10671	DCTN6	-0.0367	0.9190
11062	E11	2648	36	ACADSB	-0.0367	0.9190
11058	E11	9487	54978	C2orf18	-0.0367	0.9190
11028	E12	7972	11020	IFT27	-0.0367	0.9191

31020	D04	13226	6128	RPL6	-0.0366	0.9191
31011	C09	12264	6595	SMARCA2	-0.0366	0.9191
11078	H04	7831	26152	ZNF337	-0.0366	0.9191
11080	C01	4559	11004	KIF2C	-0.0366	0.9192
11007	F05	8308	79370	BCL2L14	-0.0366	0.9192
51035	H06	53820	337	APOA4	-0.0366	0.9192
11018	H08	3271	51649	MRPS23	-0.0365	0.9193
11088	C09	868	10505	SEMA4F	-0.0365	0.9194
11030	C04	6965	55038	CDCA4	-0.0365	0.9194
11037	E02	6219	55020	TTC38	-0.0365	0.9194
51014	C09	52915	9480	ONECUT2	-0.0365	0.9194
11037	A07	3430	8273	SLC10A3	-0.0365	0.9195
31021	G02	12951	844	CASQ1	-0.0365	0.9195
51003	D07	52768	339201	C17orf65	-0.0364	0.9195
11017	A10	7840	150590	C2orf15	-0.0364	0.9195
11005	D06	2864	55957	LIN37	-0.0364	0.9195
31032	G06	14495	29761	USP25	-0.0364	0.9196
11085	E07	3241	23787	MTCH1	-0.0364	0.9196
11012	A10	5294	54471	SMCR7L	-0.0364	0.9197
51004	D12	55085	51312	SLC25A37	-0.0364	0.9197
11038	F10	5861	5518	PPP2R1A	-0.0363	0.9197
11071	A09	7671	10859	LILRB1	-0.0363	0.9198
11001	H02	8600	347735	SERINC2	-0.0363	0.9199
31010	H09	11676	146802	SLC47A2	-0.0362	0.9199
31045	B05	9583	55671	SMEK1	-0.0362	0.9199
31029	B02	14357	54494	C11orf71	-0.0362	0.9200
51012	G08	53023	57720	GPR107	-0.0362	0.9200
11073	G06	8910	25977	NECAP1	-0.0362	0.9201
11077	D07	1575	1047	CLGN	-0.0362	0.9201
31021	G09	12854	26959	HBP1	-0.0361	0.9202
51002	H10	52633	7832	BTG2	-0.0361	0.9203
11062	D05	8475	33	ACADL	-0.0361	0.9203
51006	C07	53717	53832	IL20RA	-0.0361	0.9203
11015	E11	9137	64581	CLEC7A	-0.0360	0.9204
11083	D12	7211	116071	BATF2	-0.0360	0.9204
11006	E02	437	55143	CDCA8	-0.0360	0.9204
51013	F03	52935	9960	USP3	-0.0360	0.9204
11059	D03	1142	2697	GJA1	-0.0360	0.9204
51028	G01	55586	56606	SLC2A9	-0.0360	0.9205
11001	C01	465	8818	DPM2	-0.0360	0.9205
11086	C12	9268	9907	KIAA0415	-0.0359	0.9206
11051	B05	4161	27111	SDCBP2	-0.0359	0.9206
31021	D10	13310	54600	UGT1A9	-0.0359	0.9206
51023	C06	56065	6311	ATXN2	-0.0359	0.9207

11043	H06	435	29934	SNX12	-0.0359	0.9207
31042	E09	5320	92292	GLYATL1	-0.0359	0.9208
11025	D06	2177	11059	WWP1	-0.0358	0.9208
31011	A10	12120	2941	GSTA4	-0.0358	0.9209
11022	E11	7819	2027	ENO3	-0.0358	0.9209
11013	E04	8314	313	AOAH	-0.0358	0.9210
51021	B01	55831	56603	CYP26B1	-0.0358	0.9210
31041	H04	5898	4170	MCL1	-0.0357	0.9211
51023	D05	56211	22865	SLITRK3	-0.0357	0.9211
11059	E12	9517	148523	C1orf51	-0.0357	0.9211
31029	E12	14315	158809	MAGEB6	-0.0357	0.9212
51020	C12	56039	162968	ZNF497	-0.0356	0.9212
31005	C05	10848	5017	OVOL1	-0.0356	0.9212
11045	F02	1044	3396	ICT1	-0.0356	0.9213
11059	H03	9213	79699	ZYG11B	-0.0356	0.9213
31008	F07	11596	283899	INO80E	-0.0356	0.9213
51011	A12	52965	54790	TET2	-0.0356	0.9214
11060	H09	8275	5939	RBMS2	-0.0356	0.9214
51004	F02	53890	973	CD79A	-0.0356	0.9214
11084	D10	6007	977	CD151	-0.0356	0.9214
31016	F05	12519	23254	KAZ	-0.0355	0.9215
51014	F01	52700	2561	GABRB2	-0.0355	0.9215
11071	B04	7837	55720	TSR1	-0.0354	0.9216
51001	D10	52598	160065	PATE1	-0.0354	0.9217
11085	D04	9602	10336	PCGF3	-0.0354	0.9217
51025	C01	56285	5493	PPL	-0.0354	0.9218
31037	A11	14142	80023	NRSN2	-0.0354	0.9218
11080	C03	3403	9100	USP10	-0.0354	0.9218
11017	E09	7764	116372	LYPD1	-0.0354	0.9218
11021	C04	5477	63036	CELA2A	-0.0353	0.9219
31019	D08	13244	28299	IGKV1-5	-0.0353	0.9219
11080	E03	8284	9033	PKD2L1	-0.0353	0.9219
11009	H02	6543	8877	SPHK1	-0.0353	0.9220
11079	B07	823	25896	INTS7	-0.0352	0.9220
11065	C06	6002	10487	CAP1	-0.0352	0.9221
11037	G07	8149	5360	PLTP	-0.0352	0.9221
11021	B11	5203	3123	HLA-DRB1	-0.0351	0.9223
31039	F05	1105	5877	RABIF	-0.0351	0.9223
11078	H09	2378	9922	IQSEC1	-0.0351	0.9223
11042	B04	1772	5375	PMP2	-0.0351	0.9224
11063	F05	420	1191	CLU	-0.0351	0.9224
11026	D04	4137	6844	VAMP2	-0.0351	0.9225
11036	H04	3260	55603	FAM46A	-0.0351	0.9225
11019	H04	3395	84265	POLR3GL	-0.0351	0.9225

51033	E10	54221	55338	FLJ11292	-0.0350	0.9225
11024	G10	8201	6776	STAT5A	-0.0350	0.9225
11087	G11	5346	3313	HSPA9	-0.0350	0.9225
11019	B07	7659	1861	TOR1A	-0.0350	0.9225
11081	A11	2302	128977	C22orf39	-0.0350	0.9225
31035	G01	14991	64344	HIF3A	-0.0350	0.9226
11066	F09	2596	6515	SLC2A3	-0.0350	0.9226
11070	A08	9740	23481	PES1	-0.0350	0.9226
31025	F03	13615	22881	ANKRD6	-0.0350	0.9226
51012	B08	52989	10082	GPC6	-0.0350	0.9227
11059	B12	9769	3598	IL13RA2	-0.0350	0.9227
11065	A08	2549	79869	CPSF7	-0.0349	0.9227
11039	C03	6982	8470	SORBS2	-0.0349	0.9228
51030	G02	56457	10692	RRH	-0.0349	0.9228
11074	G10	5735	84324	SARNP	-0.0349	0.9228
51018	B05	56742	8125	ANP32A	-0.0349	0.9229
11003	A01	8960	6256	RXRA	-0.0349	0.9229
11020	D10	7115	56937	PMEPA1	-0.0348	0.9229
11070	F05	9607	1997	ELF1	-0.0348	0.9230
11076	H11	1639	79596	RNF219	-0.0348	0.9230
31039	A06	317	25776	CBY1	-0.0348	0.9230
11017	H04	7500	55284	UBE2W	-0.0348	0.9230
51022	B03	56234	167838	TXLNB	-0.0347	0.9231
11082	D02	9112	113444	C1orf212	-0.0347	0.9231
31019	C08	12950	54851	ANKRD49	-0.0347	0.9232
51015	E03	53036	1515	CTSL2	-0.0347	0.9232
11021	D07	4005	10590	SCGN	-0.0347	0.9233
11005	C03	1483	7180	CRISP2	-0.0347	0.9233
51031	D06	53190	10357	HMGB1L1	-0.0347	0.9233
11087	F03	269	5184	PEPD	-0.0346	0.9234
11073	F08	4891	10525	HYOU1	-0.0346	0.9234
51030	E07	55689	2213	FCGR2B	-0.0346	0.9234
11036	C11	6741	2628	GATM	-0.0346	0.9234
11064	H08	9926	5630	PRPH	-0.0346	0.9234
11046	H06	7007	84900	RNFT2	-0.0346	0.9235
11030	H05	3722	6118	RPA2	-0.0346	0.9235
11079	F07	6246	478	ATP1A3	-0.0346	0.9235
11022	B02	7814	8856	NR1I2	-0.0346	0.9235
11026	G04	325	10923	SUB1	-0.0345	0.9235
31039	C12	8076	NA	NA	-0.0345	0.9236
31018	E09	13113	84693	MCEE	-0.0345	0.9237
11019	H09	7685	1365	CLDN3	-0.0344	0.9239
11017	E07	6846	9349	RPL23	-0.0344	0.9239
11086	H04	7177	60	ACTB	-0.0344	0.9240

31019	F01	13132	55287	TMEM40	-0.0343	0.9240
31042	E03	5539	9205	ZMYM5	-0.0343	0.9241
31044	B02	4520	54442	KCTD5	-0.0343	0.9241
51010	E08	54737	55184	C20orf12	-0.0342	0.9242
11032	E02	10076	220202	ATOH7	-0.0342	0.9242
51020	D02	55810	9196	KCNAB3	-0.0342	0.9242
31033	D10	14942	84314	TMEM107	-0.0342	0.9242
11030	F08	3989	10573	MRPL28	-0.0342	0.9243
11070	G10	155	9238	TBRG4	-0.0342	0.9243
11029	D06	4275	6137	RPL13	-0.0341	0.9244
11079	H09	2397	10013	HDAC6	-0.0341	0.9245
51009	D12	53934	6310	ATXN1	-0.0341	0.9245
11020	B02	5341	79188	TMEM43	-0.0341	0.9246
31032	A07	14473	23394	ADNP	-0.0341	0.9246
11006	A09	7751	51778	MYOZ2	-0.0340	0.9246
11032	B07	6654	11162	NUDT6	-0.0340	0.9246
11070	H10	7866	114327	EFHC1	-0.0340	0.9246
11037	D06	4746	80746	TSEN2	-0.0340	0.9247
51022	A11	55732	4745	NELL1	-0.0340	0.9247
11085	D11	8319	2701	GJA4	-0.0340	0.9247
11087	G04	7098	9812	KIAA0141	-0.0340	0.9247
11086	H07	6271	147339	C18orf25	-0.0340	0.9248
31028	G01	14743	23532	PRAME	-0.0339	0.9248
51023	F08	56240	9037	SEMA5A	-0.0339	0.9248
11022	E12	7146	64093	SMOC1	-0.0339	0.9249
11049	A11	1141	22884	WDR37	-0.0339	0.9249
11003	A07	5851	84152	PPP1R1B	-0.0339	0.9249
11081	E09	8204	554202	LOC554202	-0.0339	0.9250
31042	C10	5788	84295	PHF6	-0.0339	0.9250
11041	H03	4120	4700	NDUFA6	-0.0339	0.9250
11001	G10	8815	9208	LRRFIP1	-0.0339	0.9250
11088	D11	1046	23256	SCFD1	-0.0339	0.9250
51029	H03	55343	80167	C4orf29	-0.0338	0.9250
11036	C10	3700	8533	COPS3	-0.0338	0.9250
51005	D01	54359	4114	MAGEB3	-0.0338	0.9251
11052	C04	3404	9528	TMEM59	-0.0338	0.9251
31017	A09	13049	153339	TMEM167A	-0.0338	0.9251
51012	H11	52995	10575	CCT4	-0.0338	0.9251
31027	E02	13963	474	ATOH1	-0.0338	0.9251
31029	C04	14217	5077	PAX3	-0.0338	0.9252
51026	C10	56307	147138	TMC8	-0.0338	0.9252
51034	D09	54249	55195	C14orf105	-0.0338	0.9252
11035	D12	3462	66005	CHID1	-0.0337	0.9253
11066	B07	1957	56658	TRIM39	-0.0337	0.9253

11075	B07	1763	130814	PQLC3	-0.0337	0.9253
51035	B11	55126	80108	ZFP2	-0.0337	0.9253
11025	E03	7918	4436	MSH2	-0.0337	0.9254
51021	C10	55915	3741	KCNA5	-0.0337	0.9254
51016	C12	56816	83956	RACGAP1P	-0.0337	0.9254
31021	G06	13297	27329	ANGPTL3	-0.0337	0.9254
31044	G11	2758	79022	TMEM106C	-0.0337	0.9254
51014	H01	54965	386617	KCTD8	-0.0336	0.9254
51002	H05	52618	146378	C16orf92	-0.0336	0.9254
51005	A12	54484	11151	CORO1A	-0.0336	0.9255
11015	C03	5703	4496	MT1H	-0.0336	0.9255
11075	H05	1548	85479	DNAJC5B	-0.0336	0.9256
11008	E07	5527	1634	DCN	-0.0336	0.9256
11028	D12	818	7163	TPD52	-0.0336	0.9256
31042	F08	6851	92856	IMP4	-0.0336	0.9256
31042	F03	6531	22932	POMZP3	-0.0336	0.9256
51016	H06	56728	729862	LOC729862	-0.0335	0.9257
51031	E01	55489	51257	MARCH2	-0.0335	0.9257
11015	H09	5195	56927	GPR108	-0.0335	0.9257
11025	G04	4442	4134	MAP4	-0.0335	0.9257
11075	E01	4378	23413	NCS1	-0.0335	0.9257
31045	G09	6106	8563	THOC5	-0.0335	0.9258
11047	F10	170	283643	C14orf80	-0.0335	0.9259
11047	H11	5615	725	C4BPB	-0.0335	0.9259
11077	E06	1725	57696	DDX55	-0.0334	0.9259
51013	E03	54330	8875	VNN2	-0.0334	0.9259
11062	H10	8368	83539	CHST9	-0.0334	0.9260
11009	B12	566	79714	CCDC51	-0.0334	0.9260
11044	E11	4351	4833	NME4	-0.0334	0.9260
11055	A04	4490	23584	VSIG2	-0.0334	0.9260
11052	F10	832	54977	SLC25A38	-0.0333	0.9262
51033	C11	54419	129852	C2orf73	-0.0333	0.9262
11070	A05	1430	5584	PRKCI	-0.0333	0.9262
51031	B09	55410	353324	SPATA12	-0.0332	0.9263
31008	C07	11766	6919	TCEA2	-0.0332	0.9265
51020	D05	56386	80975	TMPRSS5	-0.0331	0.9265
11056	G06	9751	5606	MAP2K3	-0.0331	0.9265
11066	G07	10085	10346	TRIM22	-0.0331	0.9266
31028	H05	14115	11035	RIPK3	-0.0331	0.9266
31045	E03	5954	8884	SLC5A6	-0.0331	0.9266
11016	G04	6285	1081	CGA	-0.0331	0.9266
11055	G07	464	117143	TADA1	-0.0331	0.9267
11054	G06	536	64782	AEN	-0.0330	0.9267
51033	G08	54166	80215	C21orf96	-0.0330	0.9269

11058	C04	7173	114987	WDR31	-0.0330	0.9269
51030	A02	56368	55289	ACOXL	-0.0330	0.9269
51028	E11	55378	80127	C14orf45	-0.0329	0.9270
51031	G08	55556	389073	C2orf80	-0.0329	0.9270
11037	A03	3736	65220	NADK	-0.0329	0.9270
11029	G07	6765	27243	CHMP2A	-0.0329	0.9270
11028	D10	3485	10772	SRSF10	-0.0329	0.9270
11073	D09	4643	55111	PLEKHJ1	-0.0329	0.9270
51026	B01	56920	83394	PITPNM3	-0.0329	0.9270
51030	F07	55635	5464	PPA1	-0.0329	0.9271
11064	C03	2876	113451	ADC	-0.0328	0.9272
11046	B09	4153	1442	CSH1	-0.0328	0.9272
11028	H04	6727	203	AK1	-0.0328	0.9273
51003	A02	52675	100129396	FAM106C	-0.0328	0.9274
51033	E02	55478	29064	FAM30A	-0.0327	0.9274
51023	E07	56263	57575	PCDH10	-0.0327	0.9274
11049	E09	177	7884	SLBP	-0.0327	0.9274
31039	H01	3239	51222	ZNF219	-0.0327	0.9274
31037	A08	15054	54556	ING3	-0.0327	0.9274
11007	D09	7959	4792	NFKBIA	-0.0327	0.9274
31040	H08	8291	10637	LEFTY1	-0.0327	0.9274
11015	C09	6316	9553	MRPL33	-0.0327	0.9275
11076	E02	4070	22848	AAK1	-0.0327	0.9276
11049	E07	4151	23093	TTLL5	-0.0326	0.9276
51003	H11	53340	11172	INSL6	-0.0326	0.9277
31038	G02	14711	10280	SIGMAR1	-0.0326	0.9277
11078	D01	1471	2515	ADAM2	-0.0326	0.9278
11051	H04	5873	983	CDK1	-0.0326	0.9278
11041	G01	8861	84950	PRPF38A	-0.0325	0.9278
51004	F01	52640	6016	RIT1	-0.0325	0.9278
31028	B09	14109	80315	CPEB4	-0.0325	0.9278
31005	C03	10813	23034	SAMD4A	-0.0325	0.9279
11044	D12	39	5908	RAP1B	-0.0325	0.9279
11015	G02	8844	79048	SECISBP2	-0.0324	0.9280
51030	H07	56501	1046	CDX4	-0.0324	0.9281
11022	E07	7337	115677	NOSTRIN	-0.0324	0.9281
51022	F02	56644	6925	TCF4	-0.0324	0.9281
11003	G01	116	116442	RAB39B	-0.0324	0.9281
51008	F05	54145	10117	ENAM	-0.0324	0.9282
11012	H03	3176	26502	NARF	-0.0324	0.9282
51022	G10	56423	7415	VCP	-0.0324	0.9282
31021	C09	13135	5356	PLRG1	-0.0324	0.9282
11009	G01	3886	10397	NDRG1	-0.0324	0.9282
11002	D05	9780	83856	FSD1L	-0.0324	0.9282

11021	C08	7946	25864	ABHD14A	-0.0323	0.9282
51031	H10	56488	147744	TMEM190	-0.0323	0.9283
31016	F04	12551	81472	OR2C3	-0.0323	0.9283
51009	A09	54915	374864	C18orf34	-0.0323	0.9283
11001	D05	738	6227	RPS21	-0.0323	0.9283
11019	H06	7912	83698	CALN1	-0.0323	0.9283
31017	F11	12955	6540	SLC6A13	-0.0323	0.9283
11066	G02	7738	3493	IGHA1	-0.0322	0.9285
11024	G09	4782	10291	SF3A1	-0.0322	0.9285
11048	A05	8707	54932	EXD3	-0.0322	0.9285
11009	D04	800	140564	APOBEC3D	-0.0322	0.9285
31005	A05	10992	6189	RPS3A	-0.0322	0.9285
11062	E07	6526	80174	DBF4B	-0.0322	0.9285
11037	A01	9598	8227	SFRS17A	-0.0322	0.9286
51020	D04	56141	3881	KRT31	-0.0322	0.9286
11020	B06	7710	51727	CMPK1	-0.0322	0.9286
11087	A07	3322	9253	NUMBL	-0.0321	0.9287
11028	H02	7442	387	RHOA	-0.0321	0.9288
31020	A07	12978	55600	ITLN1	-0.0321	0.9288
11061	E01	2164	79691	QTRTD1	-0.0321	0.9288
51005	C12	53770	2740	GLP1R	-0.0321	0.9288
31042	B02	4896	930	CD19	-0.0321	0.9288
51006	E12	55011	54700	RRN3	-0.0321	0.9289
31040	A09	10134	1	A1BG	-0.0320	0.9289
51034	F01	54438	353324	SPATA12	-0.0320	0.9289
31001	D10	10783	762	CA4	-0.0320	0.9290
11083	H11	6881	55272	IMP3	-0.0320	0.9290
31039	G03	6523	4171	MCM2	-0.0320	0.9290
11043	D06	8456	255101	CCDC108	-0.0320	0.9290
11078	F09	3030	9921	RNF10	-0.0320	0.9290
31024	E11	13669	6907	TBL1X	-0.0320	0.9291
31032	F02	14607	92	ACVR2A	-0.0320	0.9291
31030	C12	14322	133584	EGFLAM	-0.0319	0.9291
11070	F08	7024	3507	IGHM	-0.0319	0.9292
11077	G08	805	8310	ACOX3	-0.0319	0.9292
51012	F01	54029	91975	ZNF300	-0.0319	0.9292
11035	G06	8240	56673	C11orf16	-0.0318	0.9293
11074	H07	5029	51552	RAB14	-0.0318	0.9294
11083	H07	690	5552	SRGN	-0.0318	0.9294
31012	B09	12240	1192	CLIC1	-0.0318	0.9295
51002	C08	52957	518	ATP5G3	-0.0317	0.9295
11071	F12	8429	273	AMPH	-0.0317	0.9295
51010	C09	54791	4353	MPO	-0.0317	0.9296
11003	A03	9760	84904	C9orf100	-0.0317	0.9297

51022	F04	56649	57649	PHF12	-0.0317	0.9297
11078	D03	7658	22796	COG2	-0.0316	0.9297
11062	D08	1993	205428	C3orf58	-0.0316	0.9297
31045	H06	9640	166979	CDC20B	-0.0316	0.9297
31040	B06	10028	57129	MRPL47	-0.0316	0.9297
51012	D03	54876	732	C8B	-0.0316	0.9297
11036	E11	4679	2806	GOT2	-0.0316	0.9299
11015	C05	6202	81605	URM1	-0.0316	0.9299
11061	F02	2887	10113	PREB	-0.0315	0.9300
11045	C02	8625	55291	PPP6R3	-0.0315	0.9300
31007	B05	10889	571	BACH1	-0.0315	0.9300
11012	H02	5869	216	ALDH1A1	-0.0315	0.9300
31031	B09	14640	2701	GJA4	-0.0315	0.9301
11045	F08	1820	4255	MGMT	-0.0315	0.9301
31041	A06	5424	640	BLK	-0.0315	0.9301
11073	G11	2020	26095	PTPN20B	-0.0314	0.9302
11039	F11	1422	55713	ZNF334	-0.0314	0.9302
11045	G10	9061	50804	MYEF2	-0.0314	0.9302
11076	B12	316	55619	DOCK10	-0.0314	0.9302
51023	B09	56213	23530	NNT	-0.0314	0.9302
31028	G05	14151	2803	GOLGA4	-0.0314	0.9302
51002	F08	56313	284612	SYPL2	-0.0314	0.9302
31026	E02	14023	4004	LMO1	-0.0314	0.9303
31027	C07	13919	57459	GATAD2B	-0.0314	0.9303
31003	C08	10676	54514	DDX4	-0.0313	0.9304
51030	A12	56531	79368	FCRL2	-0.0313	0.9304
11051	C10	916	3183	HNRNPC	-0.0313	0.9304
11072	B12	3767	5451	POU2F1	-0.0313	0.9304
51010	B10	52671	23314	SATB2	-0.0313	0.9305
51023	A02	56681	64762	FAM59A	-0.0313	0.9305
11009	G04	8993	2778	GNAS	-0.0312	0.9307
11050	H01	3092	64081	PBLD	-0.0312	0.9307
31034	E08	14864	9589	WTAP	-0.0312	0.9308
11032	F05	6794	5031	P2RY6	-0.0312	0.9308
51020	A03	56769	3240	HP	-0.0311	0.9308
11087	B04	1842	51605	TRMT6	-0.0311	0.9309
11003	H02	2411	79921	TCEAL4	-0.0311	0.9309
31027	D03	13947	8111	GPR68	-0.0311	0.9309
11067	D08	8265	57674	RNF213	-0.0311	0.9309
11028	A12	3396	4832	NME3	-0.0310	0.9310
51008	G10	55155	727	C5	-0.0310	0.9310
11001	B11	8577	23209	MLC1	-0.0310	0.9310
51013	C12	53018	5143	PDE4C	-0.0310	0.9311
11017	E02	9046	51765	MST4	-0.0310	0.9312

11009	F06	3711	587	BCAT2	-0.0310	0.9312
11028	G01	5755	5730	PTGDS	-0.0309	0.9312
31001	F03	10655	10518	CIB2	-0.0309	0.9313
11041	H02	5987	4809	NHP2L1	-0.0309	0.9313
11048	F12	1835	3029	HAGH	-0.0309	0.9313
51004	H09	54327	64839	FBXL17	-0.0309	0.9314
11019	A11	4109	10239	AP3S2	-0.0309	0.9314
11022	F02	7869	2342	FNTB	-0.0308	0.9315
11029	B07	8184	10588	MTHFS	-0.0308	0.9316
11046	E04	2095	9098	USP6	-0.0307	0.9317
11012	F01	6119	51684	SUFU	-0.0307	0.9317
11063	C01	9277	162517	FBXO39	-0.0307	0.9317
51018	A01	56747	2251	FGF6	-0.0307	0.9318
31041	C04	7262	51172	NAGPA	-0.0307	0.9318
51011	C09	54121	3818	KLKB1	-0.0307	0.9319
11026	C03	3489	2280	FKBP1A	-0.0306	0.9319
11006	E11	6457	553115	PEF1	-0.0306	0.9319
31010	D01	11533	26033	ATRNL1	-0.0306	0.9319
11059	E08	7025	9512	PMPCB	-0.0306	0.9320
51029	C09	55485	2188	FANCF	-0.0306	0.9321
31044	C08	9983	197258	FUK	-0.0305	0.9321
11001	E03	8811	4215	MAP3K3	-0.0305	0.9321
11080	E05	1460	23556	PIGN	-0.0305	0.9322
51026	H06	56823	338440	ANO9	-0.0305	0.9323
11030	F03	7368	60492	CCDC90B	-0.0304	0.9324
11002	F10	9579	10842	C7orf16	-0.0304	0.9325
51024	C04	53576	26047	CNTNAP2	-0.0304	0.9325
11060	G08	8402	5276	SERPINI2	-0.0303	0.9325
11082	E04	9729	97	ACYP1	-0.0303	0.9325
51020	C03	56792	54916	C14orf101	-0.0303	0.9325
31017	H05	13096	2191	FAP	-0.0303	0.9325
11082	C09	5047	84798	C19orf48	-0.0303	0.9326
11068	B07	4146	7469	WHSC2	-0.0303	0.9327
11057	D04	8819	54801	HAUS6	-0.0303	0.9327
11001	G06	407	140576	S100A16	-0.0302	0.9327
11026	B09	3528	6612	SUMO3	-0.0302	0.9327
31004	D01	10373	11244	ZHX1	-0.0302	0.9328
31016	G02	12810	10007	GNPDA1	-0.0302	0.9328
11039	F09	7663	79132	DHX58	-0.0302	0.9328
11005	H03	7979	65999	LRRC61	-0.0302	0.9329
11071	A12	6218	85021	REPS1	-0.0302	0.9329
11056	G10	8967	11117	EMILIN1	-0.0302	0.9329
11004	D03	8616	10861	SLC26A1	-0.0302	0.9329
51026	H09	55255	4253	CTAGE5	-0.0302	0.9329

11048	D10	642	130617	ZFAND2B	-0.0302	0.9329
11060	C07	8177	79753	SNIP1	-0.0302	0.9329
11028	C10	3087	857	CAV1	-0.0302	0.9329
11013	E12	3997	23649	POLA2	-0.0302	0.9329
31002	A06	10287	162963	ZNF610	-0.0301	0.9329
51021	B02	56628	338692	ANKRD13D	-0.0301	0.9330
31037	E11	14393	112703	FAM71E1	-0.0301	0.9330
11016	A05	4041	3159	HMGAI	-0.0301	0.9330
11082	B09	2811	30833	NT5C	-0.0301	0.9331
11039	D02	5846	10782	ZNF274	-0.0301	0.9331
31022	F07	13360	158062	LCN6	-0.0301	0.9331
11089	A03	972	84628	NTNG2	-0.0300	0.9332
11009	B07	2809	91937	TIMD4	-0.0300	0.9332
11070	D03	9477	8945	BTRC	-0.0300	0.9333
51003	A10	52588	342510	CD300E	-0.0300	0.9333
11088	A03	8453	5214	PFKP	-0.0300	0.9333
11084	B07	4994	3537	IGLC1	-0.0299	0.9334
11030	A02	7485	11051	NUDT21	-0.0299	0.9335
31013	D12	12179	8448	DOC2A	-0.0299	0.9335
31031	G02	14610	8331	HIST1H2AJ	-0.0299	0.9335
51032	C07	56831	6884	TAF13	-0.0299	0.9335
11063	D05	5157	3992	FADS1	-0.0298	0.9336
11058	A01	1965	90594	ZNF439	-0.0298	0.9336
31042	G08	6392	4869	NPM1	-0.0298	0.9336
11032	G09	6057	221150	SKA3	-0.0298	0.9336
51021	D10	56670	55288	RHOT1	-0.0298	0.9337
31014	E02	11886	4205	MEF2A	-0.0298	0.9337
11004	E04	9256	148581	UBE2U	-0.0298	0.9337
11040	F04	5689	6279	S100A8	-0.0298	0.9337
51001	H09	54855	353141	LCE2D	-0.0298	0.9337
11015	D12	7403	389336	C5orf46	-0.0298	0.9337
11036	F11	2233	23157	SEPT6	-0.0298	0.9337
11069	A11	6888	56926	NCLN	-0.0298	0.9338
11003	D07	10236	91445	RNF185	-0.0298	0.9338
31023	H11	13755	145864	HAPLN3	-0.0297	0.9339
51029	A02	55636	2101	ESRRA	-0.0297	0.9339
31002	C08	10340	56605	ERO1LB	-0.0297	0.9339
11073	A07	4441	332	BIRC5	-0.0297	0.9339
31007	E02	10915	115584	SLC5A11	-0.0297	0.9339
11048	F01	8824	80028	FBXL18	-0.0297	0.9339
11042	H08	5580	9976	CLEC2B	-0.0297	0.9339
31036	E05	11638	84079	ANKRD27	-0.0297	0.9340
31002	D08	10492	2114	ETS2	-0.0296	0.9340
31027	C02	13990	9970	NR1I3	-0.0296	0.9341

51023	A06	55890	206338	AQPEP	-0.0296	0.9341
51016	G02	53903	441518	FAM127C	-0.0296	0.9341
51003	H07	52595	199990	C1orf86	-0.0296	0.9342
11020	E04	7829	8542	APOL1	-0.0296	0.9342
11049	E04	1151	4345	CD200	-0.0295	0.9343
11068	C08	8251	10742	RAI2	-0.0295	0.9343
11036	B09	6843	2224	FDPS	-0.0295	0.9343
51020	E11	55826	1548	CYP2A6	-0.0295	0.9344
11070	D05	9920	6668	SP2	-0.0295	0.9344
51025	C02	55313	25930	PTPN23	-0.0294	0.9344
51024	C02	55189	1729	DIAPH1	-0.0294	0.9345
11084	A03	661	5899	RALB	-0.0294	0.9345
11074	F10	5339	64077	LHPP	-0.0294	0.9346
11085	E10	7925	10980	COPS6	-0.0294	0.9346
31030	G01	14316	55930	MYO5C	-0.0293	0.9347
51006	F02	56824	4135	MAP6	-0.0293	0.9347
11045	A06	384	118426	LOH12CR1	-0.0293	0.9347
11052	C10	327	51070	NOSIP	-0.0293	0.9348
11064	C01	7707	768	CA9	-0.0293	0.9348
31022	B09	13687	145553	MDP1	-0.0293	0.9348
31032	B02	14515	83932	C1orf124	-0.0293	0.9348
51006	H01	53701	94233	OPN4	-0.0293	0.9348
11074	C03	1753	121355	GTSF1	-0.0293	0.9349
31042	D08	5560	830	CAPZA2	-0.0293	0.9349
11012	E10	4072	54555	DDX49	-0.0293	0.9349
11025	E12	2060	29940	DSE	-0.0292	0.9349
11053	E02	7476	57019	CIAPIN1	-0.0292	0.9349
31034	F04	14895	10878	CFHR3	-0.0292	0.9349
11054	E07	3065	1645	AKR1C1	-0.0292	0.9350
11001	F10	9797	132299	OCIAD2	-0.0292	0.9350
11021	H11	7641	4735	SEPT2	-0.0291	0.9351
11017	F04	6433	6728	SRP19	-0.0291	0.9353
31024	G02	13766	3500	IGHG1	-0.0290	0.9353
51021	A02	56595	51148	CERCAM	-0.0290	0.9353
11013	E08	7635	3959	LGALS3BP	-0.0290	0.9353
11014	F06	7610	7088	TLE1	-0.0290	0.9353
11057	D10	5882	968	CD68	-0.0290	0.9354
31033	E08	14905	7681	MKRN3	-0.0290	0.9354
51026	F09	53186	3320	HSP90AA1	-0.0290	0.9354
31018	C01	13097	130827	TMEM182	-0.0290	0.9354
31030	E05	14364	414060	TBC1D3C	-0.0290	0.9354
11013	H05	6785	56931	DUS3L	-0.0290	0.9355
11081	D10	9096	5827	PXMP2	-0.0290	0.9355
11032	C08	9181	1620	DBC1	-0.0289	0.9355

11015	H06	9054	54556	ING3	-0.0289	0.9355
51004	D01	52653	283129	C11orf85	-0.0289	0.9356
11003	G03	446	9166	EBAG9	-0.0289	0.9356
11049	E10	5610	29079	MED4	-0.0289	0.9356
11034	B08	6180	2702	GJA5	-0.0289	0.9356
51028	H09	56827	8687	KRT38	-0.0289	0.9356
51031	H06	56500	9710	KIAA0355	-0.0289	0.9357
51003	D06	52748	340596	LHFPL1	-0.0289	0.9357
11081	C08	8118	NA	NA	-0.0288	0.9358
11070	E11	9646	84447	SYVN1	-0.0288	0.9359
51005	B02	54167	50484	RRM2B	-0.0288	0.9359
31039	C11	4732	NA	NA	-0.0288	0.9359
11029	F08	7530	51510	CHMP5	-0.0288	0.9359
11017	H03	6589	NA	NA	-0.0287	0.9360
11025	G02	9774	51194	IPO11	-0.0287	0.9360
11074	F12	1506	441519	CT45A3	-0.0287	0.9360
51031	B05	53285	124808	CCDC43	-0.0287	0.9360
31011	B11	12086	51027	BOLA1	-0.0287	0.9360
11019	D01	9113	3887	KRT81	-0.0287	0.9360
11083	F06	4464	1984	EIF5A	-0.0287	0.9361
31011	F11	12213	155382	VPS37D	-0.0287	0.9361
11048	B03	2610	5650	KLK7	-0.0287	0.9361
11062	F12	5248	10226	PLIN3	-0.0287	0.9361
11070	A07	7004	5905	RANGAP1	-0.0287	0.9362
11080	B11	5025	23191	CYFIP1	-0.0286	0.9362
11008	H04	235	55506	H2AFY2	-0.0286	0.9362
51032	D06	55567	25915	NDUFAF3	-0.0286	0.9363
11085	H09	9870	83445	GSG1	-0.0286	0.9363
11022	C06	7331	55269	PSPC1	-0.0285	0.9364
31038	B05	14541	170394	PWWP2B	-0.0285	0.9364
11028	H07	6880	51545	ZNF581	-0.0285	0.9364
11004	A11	3112	2948	GSTM4	-0.0285	0.9365
51030	H08	53390	79993	ELOVL7	-0.0285	0.9366
11072	G03	1589	11085	ADAM30	-0.0284	0.9366
11004	H04	8559	5825	ABCD3	-0.0284	0.9367
51026	E10	56915	491	ATP2B2	-0.0284	0.9367
31002	E09	10493	1488	CTBP2	-0.0284	0.9367
51003	E06	56762	6756	SSX1	-0.0284	0.9367
31003	E01	10559	92140	MTDH	-0.0284	0.9367
51029	E03	53330	253558	LCLAT1	-0.0283	0.9369
51003	F01	52689	51481	VCX3A	-0.0283	0.9369
31021	E01	13165	5733	PTGER3	-0.0283	0.9369
51018	E05	56097	441493	LOC441493	-0.0283	0.9370
31043	F07	7035	2624	GATA2	-0.0282	0.9371

11007	H04	3248	54964	C1orf56	-0.0282	0.9371
11016	F01	6620	9502	XAGE2	-0.0282	0.9371
11056	D10	1840	10238	DCAF7	-0.0282	0.9371
11049	G09	496	29902	C12orf24	-0.0282	0.9371
51004	H04	55770	79465	ULBP3	-0.0282	0.9371
31036	D06	11691	10908	PNPLA6	-0.0282	0.9372
51026	E05	56918	84547	PGBD1	-0.0281	0.9372
11076	G02	4387	51760	SYT17	-0.0281	0.9373
51020	G11	56204	2494	NR5A2	-0.0281	0.9373
31010	G02	11554	29118	DDX25	-0.0281	0.9374
11042	F04	9026	6342	SCP2	-0.0281	0.9374
31006	G01	11201	10379	IRF9	-0.0281	0.9374
31006	C03	10907	405	ARNT	-0.0281	0.9374
11030	F04	7405	10935	PRDX3	-0.0281	0.9374
11001	H08	598	6902	TBCA	-0.0280	0.9376
11063	E11	5008	64745	METT11D1	-0.0280	0.9376
11043	F01	8524	653808	ZG16	-0.0280	0.9376
51009	C08	53504	283383	GPR133	-0.0280	0.9376
11006	B10	1704	205327	C2orf69	-0.0280	0.9377
11026	A12	8779	974	CD79B	-0.0280	0.9377
31004	A12	11142	150372	NFAM1	-0.0279	0.9377
31031	E08	14663	79133	C20orf7	-0.0279	0.9377
11086	E11	4560	54587	MXRA8	-0.0279	0.9377
11022	A05	7719	6300	MAPK12	-0.0279	0.9378
11087	G10	2942	2130	EWSR1	-0.0279	0.9378
11037	D11	6812	64755	C16orf58	-0.0278	0.9379
11064	D10	6970	5663	PSEN1	-0.0278	0.9380
51008	H01	53572	84893	FBXO18	-0.0278	0.9380
11029	D02	6771	51016	FAM158A	-0.0278	0.9380
31040	E01	8122	4915	NTRK2	-0.0278	0.9381
11087	H02	1175	10085	EDIL3	-0.0278	0.9381
11082	F03	8823	10213	PSMD14	-0.0277	0.9381
11025	D02	4566	3098	HK1	-0.0277	0.9382
31039	D09	914	6665	SOX15	-0.0277	0.9382
31022	A04	13352	84105	PCBD2	-0.0277	0.9383
11062	H11	4190	10195	ALG3	-0.0276	0.9384
31005	B02	11170	135398	C6orf141	-0.0276	0.9384
11057	G04	72	5510	PPP1R7	-0.0276	0.9384
31001	E05	10441	9364	RAB28	-0.0276	0.9384
11085	A06	8334	6783	SULT1E1	-0.0276	0.9384
11084	F10	599	9718	ECE2	-0.0276	0.9384
51008	F01	54203	3674	ITGA2B	-0.0276	0.9385
51005	G07	55359	8542	APOL1	-0.0276	0.9385
31007	E12	11426	8266	UBL4A	-0.0275	0.9386

31025	F07	13416	4926	NUMA1	-0.0275	0.9386
11012	E01	3907	7205	TRIP6	-0.0275	0.9387
51033	D09	54938	642947	LOC642947	-0.0275	0.9387
51015	D10	52853	27287	VENTX	-0.0275	0.9387
31037	A05	12877	5876	RABGGTB	-0.0275	0.9387
11044	F09	2686	11315	PARK7	-0.0274	0.9388
11006	B08	9574	144453	BEST3	-0.0274	0.9388
31034	F01	14943	915	CD3D	-0.0274	0.9388
11032	D03	8685	1912	PHC2	-0.0274	0.9389
11029	A08	8830	6252	RTN1	-0.0274	0.9389
11060	C11	561	2150	F2RL1	-0.0274	0.9390
11009	D05	7445	29947	DNMT3L	-0.0274	0.9390
11071	G03	404	79867	TCTN2	-0.0273	0.9390
11066	F06	6992	26094	DCAF4	-0.0273	0.9390
11004	E10	2570	283870	C16orf79	-0.0273	0.9391
11025	F08	5906	22880	MORC2	-0.0273	0.9391
31044	A10	1139	124491	TMEM170A	-0.0273	0.9391
11029	E07	2762	11015	KDELR3	-0.0273	0.9391
11042	H11	6362	2993	GYPA	-0.0273	0.9391
11021	E10	5787	10481	HOXB13	-0.0273	0.9392
11075	A06	1867	122651	RNASE11	-0.0272	0.9392
11077	C11	10203	64419	MTMR14	-0.0272	0.9392
11022	E09	7825	84957	RELT	-0.0272	0.9392
11072	C08	3791	26155	NOC2L	-0.0272	0.9393
51003	D01	52677	84033	OBSCN	-0.0272	0.9393
11002	H10	9501	132228	C3orf45	-0.0272	0.9393
11056	F06	6776	6941	TCF19	-0.0272	0.9393
51001	D05	55442	6636	SNRPF	-0.0272	0.9393
11059	G11	1676	51268	PIPOX	-0.0272	0.9394
31017	F07	12474	9869	SETDB1	-0.0271	0.9394
51016	F10	56778	90133	KRT8P12	-0.0271	0.9394
31001	E09	10444	148479	PHF13	-0.0271	0.9395
11061	E10	4815	1454	CSNK1E	-0.0271	0.9395
31004	C09	11096	123920	CMTM3	-0.0271	0.9395
11038	E05	6215	10536	LEPREL2	-0.0271	0.9395
11079	E01	7971	10058	ABCB6	-0.0271	0.9395
11073	H02	3931	79095	C9orf16	-0.0270	0.9396
11051	B10	899	7265	TTC1	-0.0270	0.9397
51013	A11	54271	150572	SMYD1	-0.0270	0.9397
11017	C09	7506	56907	SPIRE1	-0.0270	0.9397
11043	D07	5762	51187	RSL24D1	-0.0270	0.9398
11083	F04	2806	64221	ROBO3	-0.0270	0.9398
11063	C06	8117	5521	PPP2R2B	-0.0270	0.9398
11028	F04	9606	121053	C12orf45	-0.0270	0.9398

11004	B03	620	27166	PRELID1	-0.0269	0.9399
51035	G08	54272	158506	ZNF645	-0.0269	0.9400
11088	E01	9981	28378	IGHV7-81	-0.0269	0.9400
11089	H01	1740	585	BBS4	-0.0269	0.9400
51022	H11	56327	7871	SLMAP	-0.0269	0.9400
31039	F12	8671	9912	RICH2	-0.0269	0.9400
51023	H11	56425	63897	HEATR6	-0.0268	0.9401
11013	H03	289	3312	HSPA8	-0.0268	0.9401
31004	B09	11028	6427	SRSF2	-0.0268	0.9401
11047	G08	4186	7171	TPM4	-0.0268	0.9401
11015	B08	5236	84837	C14orf128	-0.0268	0.9402
11019	A01	9157	136853	SRCRB4D	-0.0268	0.9402
51004	F03	52917	353376	TICAM2	-0.0267	0.9403
11054	C06	430	29920	PYCR2	-0.0267	0.9403
11079	C06	5193	55526	DHTKD1	-0.0267	0.9403
51009	G03	53086	9967	THRAP3	-0.0267	0.9403
11007	D04	5190	65992	DDRKG1	-0.0267	0.9405
11083	E09	29	1153	CIRBP	-0.0266	0.9405
11066	H02	9919	1959	EGR2	-0.0266	0.9406
11016	G03	3866	51734	SEPX1	-0.0266	0.9406
51010	E10	53926	80315	CPEB4	-0.0266	0.9406
31041	G08	3957	120227	CYP2R1	-0.0265	0.9407
11040	A10	7126	116832	RPL39L	-0.0265	0.9407
31014	H03	12141	113201	CASC4	-0.0265	0.9408
11013	G04	6605	28976	ACAD9	-0.0265	0.9408
31020	C12	13253	55871	CBWD1	-0.0265	0.9408
51031	C01	55417	245812	CNPY4	-0.0265	0.9408
11060	B04	5093	84283	TMEM79	-0.0265	0.9409
11080	D09	9933	9110	MTMR4	-0.0264	0.9409
11032	G02	7608	1513	CTSK	-0.0264	0.9409
11039	F03	2066	10926	DBF4	-0.0264	0.9410
11068	E01	7696	10083	USH1C	-0.0264	0.9411
31001	D08	10284	57602	USP36	-0.0263	0.9411
51013	D03	55012	55188	RIC8B	-0.0263	0.9412
31022	C11	13421	89927	C16orf45	-0.0263	0.9412
51003	D11	54458	85287	KRTAP4-7	-0.0263	0.9412
51021	A09	56646	11107	PRDM5	-0.0263	0.9412
11070	A01	6979	83939	EIF2A	-0.0263	0.9413
51014	B10	52710	64816	CYP3A43	-0.0263	0.9413
51002	B05	52636	8330	HIST1H2AK	-0.0262	0.9414
11059	D04	2502	5494	PPM1A	-0.0262	0.9414
11073	B07	1480	414061	DNAJB3	-0.0262	0.9414
11083	C03	9850	374659	HDDC3	-0.0262	0.9414
11084	D07	3539	83930	STARD3NL	-0.0262	0.9415

31016	H05	12415	1266	CNN3	-0.0262	0.9415
11081	A09	7952	100272147	MTCP1NB	-0.0262	0.9415
11073	D08	4360	51619	UBE2D4	-0.0262	0.9415
51005	A10	53541	7693	ZNF134	-0.0261	0.9416
11045	A05	9622	54495	TMX3	-0.0261	0.9416
11012	D05	3601	9791	PTDSS1	-0.0261	0.9416
51015	D06	52686	29986	SLC39A2	-0.0261	0.9416
11069	E11	663	1066	CES1	-0.0261	0.9416
11022	G06	8021	5476	CTSA	-0.0261	0.9417
11035	D10	8662	9411	ARHGAP29	-0.0261	0.9417
31044	E10	3110	8543	LMO4	-0.0261	0.9417
11085	A12	2593	2771	GNAI2	-0.0261	0.9417
11074	H01	3855	1026	CDKN1A	-0.0261	0.9418
11082	E11	1211	646470	LOC646470	-0.0260	0.9418
11068	F04	4799	84818	IL17RC	-0.0260	0.9418
11057	G11	2321	11149	BVES	-0.0260	0.9419
51033	C01	56934	646938	LOC646938	-0.0260	0.9419
51031	H07	53377	284369	C19orf75	-0.0260	0.9419
31038	F09	8865	9844	ELMO1	-0.0259	0.9420
31006	F02	11319	26263	FBXO22	-0.0259	0.9420
51025	C12	53262	22930	RAB3GAP1	-0.0259	0.9420
51030	C04	53260	415116	PIM3	-0.0259	0.9421
31001	F08	10674	6457	SH3GL3	-0.0259	0.9421
11051	B06	5419	6468	FBXW4	-0.0259	0.9421
31008	A07	11801	10400	PEMT	-0.0259	0.9421
11056	G09	6899	56288	PARD3	-0.0259	0.9421
51006	D02	54971	51622	CCZ1	-0.0259	0.9422
31022	C09	13756	124402	FAM100A	-0.0259	0.9422
51035	A11	55082	80108	ZFP2	-0.0258	0.9422
31039	G01	6424	4057	LTF	-0.0258	0.9423
11069	H11	6512	7337	UBE3A	-0.0258	0.9423
11085	G04	8318	126364	LRRC25	-0.0258	0.9424
11005	B04	760	25941	C18orf10	-0.0258	0.9424
11047	C06	4776	92960	PEX11G	-0.0258	0.9424
11007	G05	3367	81849	ST6GALNAC5	-0.0258	0.9424
31006	E07	11267	2078	ERG	-0.0257	0.9424
51030	D12	55302	56937	PMEPA1	-0.0257	0.9425
11038	B12	6254	1602	DACH1	-0.0257	0.9425
51028	D07	55375	7773	ZNF230	-0.0257	0.9426
51025	H10	56874	23074	UHRF1BP1L	-0.0257	0.9426
31010	F09	11424	51667	NUB1	-0.0256	0.9427
11007	F08	7730	30	ACAA1	-0.0256	0.9428
31026	D07	13894	3203	HOXA6	-0.0255	0.9429
11025	C05	7282	84498	FAM120B	-0.0255	0.9429

51025	C10	55579	65123	INTS3	-0.0255	0.9429
11044	G07	4725	6133	RPL9	-0.0255	0.9429
11016	D10	7420	54205	CYCS	-0.0255	0.9431
51028	B05	56401	285489	DOK7	-0.0255	0.9431
51020	A12	53167	1687	DFNA5	-0.0254	0.9431
31014	D11	11893	6569	SLC34A1	-0.0254	0.9431
31017	F10	12849	130888	FBXO36	-0.0254	0.9431
31012	A12	12216	284131	FLJ35220	-0.0254	0.9431
11080	H08	6127	9698	PUM1	-0.0254	0.9431
31029	C12	14301	5718	PSMD12	-0.0254	0.9432
11085	B09	3492	8666	EIF3G	-0.0254	0.9432
31004	A02	10505	66008	TRAK2	-0.0254	0.9432
11006	D06	2870	6251	RSU1	-0.0254	0.9432
11060	F11	8078	285527	FRYL	-0.0254	0.9433
31040	A08	9311	5409	PNMT	-0.0254	0.9433
11049	F03	4747	55611	OTUB1	-0.0254	0.9433
31002	E04	10717	254122	SNX32	-0.0253	0.9433
31003	A03	10526	2571	GAD1	-0.0253	0.9434
51030	D04	56547	79931	TNIP3	-0.0253	0.9434
11009	A04	7139	71	ACTG1	-0.0253	0.9434
11043	H09	6904	56005	C19orf10	-0.0253	0.9434
51001	B05	52570	56990	CDC42SE2	-0.0253	0.9434
11059	F03	4773	222	ALDH3B2	-0.0253	0.9435
51025	B03	53144	284403	WDR62	-0.0253	0.9435
51014	E03	54037	119548	PNLIPRP3	-0.0252	0.9435
31040	C08	9418	3293	HSD17B3	-0.0252	0.9435
51009	D09	53627	205147	FAM123C	-0.0252	0.9436
11063	E06	2270	153733	CCDC112	-0.0252	0.9436
31001	G11	10331	134285	TMEM171	-0.0252	0.9436
11025	D12	1345	26036	ZNF451	-0.0252	0.9436
11049	F06	6420	55611	OTUB1	-0.0252	0.9437
11002	D12	9019	10558	SPTLC1	-0.0252	0.9437
11014	E06	6232	7869	SEMA3B	-0.0251	0.9437
31022	F02	13368	147699	PPM1N	-0.0251	0.9438
11004	B05	602	9545	RAB3D	-0.0251	0.9438
11085	G07	6954	7351	UCP2	-0.0251	0.9439
11052	H05	5533	5537	PPP6C	-0.0250	0.9440
51013	F12	52931	2115	ETV1	-0.0250	0.9440
31016	E03	12542	595	CCND1	-0.0250	0.9440
31030	F07	14327	83538	TTC25	-0.0250	0.9441
11013	C08	5958	9985	REC8	-0.0250	0.9441
11064	H07	9445	9314	KLF4	-0.0250	0.9441
11027	F11	6759	6233	RPS27A	-0.0250	0.9442
11028	F02	3306	1719	DHFR	-0.0249	0.9442

11019	F11	6520	112752	C14orf179	-0.0249	0.9442
31017	C10	12887	10777	ARPP21	-0.0249	0.9442
51020	E09	56235	124535	HSF5	-0.0249	0.9443
11047	G09	5745	84294	UTP23	-0.0249	0.9443
11058	B01	4487	25886	POC1A	-0.0249	0.9443
11087	B05	2878	9328	GTF3C5	-0.0249	0.9444
11078	F04	1418	10512	SEMA3C	-0.0249	0.9444
31024	A08	13701	114880	OSBPL6	-0.0249	0.9444
31016	A06	12545	24140	FTSJ1	-0.0248	0.9444
11084	H01	8746	7574	ZNF26	-0.0248	0.9444
11041	H01	5985	23612	PHLDA3	-0.0248	0.9444
11050	H04	4210	8612	PPAP2C	-0.0248	0.9444
31033	B05	14730	4000	LMNA	-0.0248	0.9444
11080	A08	1855	144406	WDR66	-0.0248	0.9445
11010	C12	306	10294	DNAJA2	-0.0248	0.9445
11080	G03	4619	60528	ELAC2	-0.0248	0.9446
11030	E06	8221	118472	ZNF511	-0.0248	0.9446
11018	C07	3683	7327	UBE2G2	-0.0247	0.9446
11012	F09	8230	1198	CLK3	-0.0247	0.9446
31031	C02	14578	8294	HIST1H4I	-0.0247	0.9446
31023	C03	13743	26040	SETBP1	-0.0247	0.9447
11013	C07	871	25999	CLIP3	-0.0247	0.9447
51010	A09	53760	128876	FAM83C	-0.0247	0.9447
31041	H11	3888	5432	POLR2C	-0.0247	0.9447
51027	G08	56933	340359	KLHL38	-0.0247	0.9447
51002	H11	54869	337880	KRTAP11-1	-0.0247	0.9447
51033	G04	53529	7120	TMSL6	-0.0247	0.9447
51013	D11	53843	26156	RSL1D1	-0.0247	0.9448
51011	E12	54041	284353	NKPD1	-0.0247	0.9448
51013	E05	52772	285641	SLC36A3	-0.0246	0.9448
11005	A05	767	91801	ALKBH8	-0.0246	0.9449
11086	D05	2780	1992	SERPINB1	-0.0246	0.9449
51006	E03	54304	285	ANGPT2	-0.0246	0.9449
11066	G05	2492	7439	BEST1	-0.0246	0.9449
31041	G03	6872	10535	RNASEH2A	-0.0246	0.9449
11012	E08	7465	2624	GATA2	-0.0246	0.9450
51005	D10	56814	7127	TNFAIP2	-0.0246	0.9450
31013	G04	12320	2967	GTF2H3	-0.0245	0.9451
11068	D10	1953	147694	ZNF548	-0.0245	0.9451
51001	G04	53208	387882	C12orf75	-0.0245	0.9451
31002	A05	10378	57590	WDFY1	-0.0245	0.9451
11028	H08	8852	140459	ASB6	-0.0245	0.9452
31019	H08	12853	5689	PSMB1	-0.0244	0.9453
11055	C09	6860	196483	FAM86A	-0.0244	0.9453

11007	E12	7093	78999	LRFN4	-0.0244	0.9453
11020	G02	5635	5684	PSMA3	-0.0244	0.9453
11076	A12	4858	83694	RPS6KL1	-0.0244	0.9453
11016	B10	7574	196872	MGC23270	-0.0244	0.9454
11032	B03	8185	2212	FCGR2A	-0.0244	0.9454
11075	B10	4067	54797	MED18	-0.0243	0.9455
11046	F09	4113	93408	MYL10	-0.0243	0.9455
11074	E11	8704	64097	EPB41L4A	-0.0243	0.9456
31034	A02	14856	164668	APOBEC3H	-0.0243	0.9456
51035	A08	53711	5230	PGK1	-0.0243	0.9456
11017	A09	7806	6160	RPL31	-0.0243	0.9456
51035	G06	53822	337	APOA4	-0.0242	0.9458
11014	D04	2307	51514	DTL	-0.0242	0.9458
11047	B06	748	131601	TPRA1	-0.0242	0.9458
11076	F07	4592	51130	ASB3	-0.0242	0.9458
11038	H10	1777	80790	CMIP	-0.0242	0.9458
51001	F07	54767	441525	SPANXN4	-0.0242	0.9459
51013	E04	52936	6571	SLC18A2	-0.0242	0.9459
31009	B01	11767	3921	RPSA	-0.0241	0.9459
11045	H04	2053	221468	TMEM217	-0.0241	0.9459
11084	E06	2416	10682	EBP	-0.0241	0.9459
11043	G10	939	26258	PLDN	-0.0241	0.9460
11055	E12	8851	81557	MAGED4B	-0.0241	0.9460
31019	G11	13228	5684	PSMA3	-0.0241	0.9460
11016	F12	5746	84299	C17orf37	-0.0241	0.9460
11050	D04	6672	2273	FHL1	-0.0241	0.9460
11063	E07	9575	255057	C19orf26	-0.0241	0.9460
51002	H03	54948	389658	FAM150A	-0.0241	0.9461
31006	H04	11251	9617	MTRF1	-0.0241	0.9461
51033	E04	56496	96597	TBC1D27	-0.0241	0.9461
11021	G10	3611	51063	CALHM2	-0.0241	0.9461
31001	A12	10802	133418	EMB	-0.0241	0.9461
31039	C08	8812	23087	TRIM35	-0.0240	0.9461
11066	F03	10173	954	ENTPD2	-0.0240	0.9462
51001	D01	54610	326343	MT1DP	-0.0240	0.9462
11050	H11	4534	51759	C9orf78	-0.0240	0.9462
11013	A08	8508	6097	RORC	-0.0240	0.9462
11006	E06	8270	54033	RBM11	-0.0240	0.9462
51005	B04	54457	8514	KCNAB2	-0.0240	0.9463
11017	D10	3728	56905	C15orf39	-0.0240	0.9463
11068	E07	8281	5153	PDE1B	-0.0239	0.9464
11027	D01	36	23589	CARHSP1	-0.0239	0.9465
51033	B01	55325	374875	HSD11B1L	-0.0239	0.9465
51026	G06	55269	1001	CDH3	-0.0239	0.9465

31040	A12	7561	10424	PGRMC2	-0.0238	0.9466
11087	G02	3868	84765	ZNF577	-0.0238	0.9466
51013	C01	53055	55732	C1orf112	-0.0238	0.9466
51012	D10	54268	53630	BCMO1	-0.0238	0.9467
31045	A06	9412	57472	CNOT6	-0.0238	0.9467
11066	E09	10217	9751	SNPH	-0.0238	0.9467
51033	H03	53428	7114	TMSB4X	-0.0238	0.9467
11076	H09	4557	9943	OXSR1	-0.0238	0.9468
51018	D03	56758	7258	TSPY1	-0.0237	0.9468
11078	B03	8309	2162	F13A1	-0.0237	0.9468
11028	E06	9158	5034	P4HB	-0.0237	0.9469
11077	H05	4549	10611	PDLIM5	-0.0237	0.9469
11041	F04	6642	79616	CCNJL	-0.0237	0.9469
11086	F05	5586	1158	CKM	-0.0237	0.9470
31041	C01	7393	84876	ORAI1	-0.0236	0.9471
51026	G07	53296	89876	C3orf15	-0.0236	0.9471
11049	B11	1194	132204	SYNPR	-0.0236	0.9471
11068	E06	1990	9655	SOCS5	-0.0236	0.9471
31042	G09	5552	51528	JKAMP	-0.0236	0.9472
51003	A07	52978	391	RHOG	-0.0236	0.9472
51006	G03	53635	2303	FOXC2	-0.0235	0.9472
31039	B03	6805	5598	MAPK7	-0.0235	0.9473
11037	B08	3132	7385	UQCRC2	-0.0235	0.9473
11018	G07	7536	54830	NUP62CL	-0.0235	0.9473
11029	E01	6754	11235	PDCD10	-0.0235	0.9473
11086	D10	9180	80201	HKDC1	-0.0235	0.9474
51012	G09	52781	134359	POC5	-0.0235	0.9474
11028	H06	4459	51501	C11orf73	-0.0235	0.9474
11027	C05	3441	6223	RPS19	-0.0234	0.9474
11075	B11	3801	578	BAK1	-0.0234	0.9474
31006	E04	10820	2104	ESRRG	-0.0234	0.9475
11026	D01	574	51316	PLAC8	-0.0234	0.9476
11083	A11	2677	765	CA6	-0.0234	0.9476
11010	D06	529	1455	CSNK1G2	-0.0234	0.9476
31016	D05	12484	51377	UCHL5	-0.0234	0.9476
51009	D11	54308	5318	PKP2	-0.0233	0.9477
31045	B01	253	226	ALDOA	-0.0233	0.9477
51012	F10	52743	200081	TXLNA	-0.0233	0.9477
31038	D06	14274	7405	UVRAG	-0.0233	0.9477
11071	G06	9679	83448	PUS7L	-0.0233	0.9478
11056	C12	3038	1385	CREB1	-0.0233	0.9478
11069	F02	2303	284076	TTLL6	-0.0233	0.9479
11039	C10	3370	1627	DBN1	-0.0232	0.9479
31043	G07	6475	948	CD36	-0.0232	0.9479

11060	D01	3821	10449	ACAA2	-0.0232	0.9480
11085	D08	2938	79583	TMEM231	-0.0232	0.9480
11038	B03	5328	79744	ZNF419	-0.0232	0.9480
51029	B12	53388	80006	C5orf44	-0.0232	0.9480
11056	A10	2909	7023	TFAP4	-0.0232	0.9480
31031	G03	14612	3605	IL17A	-0.0232	0.9480
11065	E04	5105	7448	VTN	-0.0232	0.9481
31039	A10	1166	154661	RUNDC3B	-0.0231	0.9481
51013	A06	54427	220963	SLC16A9	-0.0231	0.9481
51017	E05	55908	10876	EDDM3A	-0.0231	0.9482
51024	C12	53375	2975	GTF3C1	-0.0231	0.9482
11057	E10	4771	7918	BAT4	-0.0231	0.9483
51005	H07	54689	7978	MTERF	-0.0230	0.9483
31014	D08	12025	5551	PRF1	-0.0230	0.9484
31036	F10	13176	4494	MT1F	-0.0230	0.9484
51015	F05	53042	23409	SIRT4	-0.0230	0.9485
11042	D09	6935	10597	TRAPPC2P1	-0.0230	0.9485
11053	H03	9488	11238	CA5B	-0.0229	0.9485
11030	G01	9561	25830	SULT4A1	-0.0229	0.9486
51004	H08	55061	203076	C8orf74	-0.0229	0.9486
11012	E05	3909	11052	CPSF6	-0.0229	0.9486
11087	A11	7920	6490	SILV	-0.0229	0.9486
11050	G07	6931	29982	NRBF2	-0.0229	0.9487
11017	E12	6136	5433	POLR2D	-0.0229	0.9487
11036	C09	3622	29927	SEC61A1	-0.0229	0.9487
11001	B08	8805	27436	EML4	-0.0229	0.9487
31019	G07	13305	5685	PSMA4	-0.0229	0.9487
31017	E11	13008	6364	CCL20	-0.0228	0.9488
31033	A05	14792	4661	MYT1	-0.0228	0.9488
31038	C07	9415	5781	PTPN11	-0.0228	0.9489
31033	F07	14861	285074	LOC285074	-0.0228	0.9489
11046	D10	8719	79887	PLBD1	-0.0227	0.9490
11057	F06	8417	971	CD72	-0.0227	0.9490
11020	A08	7770	91056	DKFZp761E198	-0.0227	0.9491
11086	D09	1398	83659	TEKT1	-0.0227	0.9491
31042	E10	5818	6657	SOX2	-0.0227	0.9491
51033	F01	55365	NA	NA	-0.0227	0.9492
51034	F11	53704	50837	TAS2R7	-0.0226	0.9492
51025	C06	53191	55215	FANCI	-0.0226	0.9493
11009	H10	5301	3880	KRT19	-0.0226	0.9493
31020	G09	13192	54852	PAQR5	-0.0226	0.9493
31041	E08	6118	10112	KIF20A	-0.0226	0.9493
51035	D08	53912	10886	NPFFR2	-0.0226	0.9493
11074	G02	2398	25828	TXN2	-0.0226	0.9494

11015	D11	5802	55970	GNG12	-0.0225	0.9495
11018	F11	3527	84516	DCTN5	-0.0225	0.9495
51034	G08	54310	482	ATP1B2	-0.0225	0.9495
51009	D06	53795	22802	CLCA4	-0.0225	0.9495
11083	G11	4590	55272	IMP3	-0.0225	0.9496
51020	B07	56563	2863	GPR39	-0.0225	0.9496
11042	C03	1362	3398	ID2	-0.0225	0.9496
51005	C05	54578	29070	CCDC113	-0.0224	0.9497
11004	E08	679	25895	FAM119B	-0.0224	0.9497
51025	D06	56493	7143	TNR	-0.0224	0.9497
11046	A01	2037	8382	NME5	-0.0224	0.9498
31041	C08	5331	81691	LOC81691	-0.0224	0.9498
51024	F09	55182	197131	UBR1	-0.0224	0.9498
51030	E06	56034	191	AHCY	-0.0223	0.9498
51012	H06	53111	81494	CFHR5	-0.0223	0.9499
11055	F11	4692	3945	LDHB	-0.0223	0.9499
11077	C07	4651	369	ARAF	-0.0223	0.9499
11053	H02	5520	231	AKR1B1	-0.0223	0.9499
11068	F11	6993	4848	CNOT2	-0.0223	0.9499
11073	H06	4365	56063	C1orf91	-0.0223	0.9500
31016	F02	12568	91647	ATPAF2	-0.0223	0.9500
11079	A04	1722	116369	SLC26A8	-0.0223	0.9500
11032	B10	6324	5507	PPP1R3C	-0.0223	0.9500
51031	G04	56895	377047	PRSS45	-0.0223	0.9501
31041	E07	5224	84959	UBASH3B	-0.0222	0.9501
11042	D04	2381	10247	HRSP12	-0.0222	0.9502
51028	D08	55279	55762	ZNF701	-0.0222	0.9502
11078	A04	7110	3728	JUP	-0.0222	0.9502
11018	E07	7122	79754	ASB13	-0.0222	0.9502
11046	D11	8501	205	AK4	-0.0221	0.9503
31045	D01	259	55080	TAPBPL	-0.0221	0.9504
11024	B02	3895	57658	CALCOCO1	-0.0221	0.9504
11060	E01	10245	10332	CLEC4M	-0.0221	0.9504
51003	C03	53056	83899	KRTAP9-2	-0.0221	0.9504
51033	C04	56138	NA	NA	-0.0221	0.9504
11064	A03	7909	26190	FBXW2	-0.0221	0.9504
11043	A01	5126	5147	PDE6D	-0.0221	0.9504
11040	A06	9087	29801	ZDHHC8	-0.0221	0.9505
31041	F02	7590	126259	TMIGD2	-0.0220	0.9505
11024	H08	9966	29882	ANAPC2	-0.0220	0.9505
51017	A08	55982	79570	NKAIN1	-0.0220	0.9505
51009	F05	52773	146862	UNC45B	-0.0220	0.9506
51012	A05	54157	2868	GRK4	-0.0220	0.9506
11060	D05	4386	661	POLR3D	-0.0220	0.9506

31012	D12	12308	89978	ATPBD4	-0.0220	0.9506
11013	D02	8345	3560	IL2RB	-0.0220	0.9506
11003	B02	9400	53833	IL20RB	-0.0220	0.9507
51009	D07	54148	8573	CASK	-0.0219	0.9508
11022	G10	3919	29015	SLC43A3	-0.0219	0.9508
11088	F01	8774	124460	SNX20	-0.0219	0.9508
11088	E06	10133	2865	FFAR3	-0.0219	0.9508
31016	E01	12591	6836	SURF4	-0.0219	0.9508
51020	D07	56783	92609	TIMM50	-0.0219	0.9508
11052	C02	1221	127700	OSCP1	-0.0219	0.9508
31021	H06	12977	57404	CYP20A1	-0.0219	0.9508
11049	B07	1850	51107	APH1A	-0.0219	0.9509
31007	C10	11562	84809	CROCCP2	-0.0218	0.9509
51025	A02	53258	6597	SMARCA4	-0.0218	0.9510
11080	G08	2474	2073	ERCC5	-0.0218	0.9510
11062	D07	1776	5522	PPP2R2C	-0.0218	0.9510
11062	E12	4373	3232	HOXD3	-0.0218	0.9511
51026	G10	56315	84131	CEP78	-0.0218	0.9511
31018	D12	12995	10186	LHFP	-0.0218	0.9511
11009	E07	6078	8131	NPRL3	-0.0217	0.9512
51022	D11	56179	55677	IWS1	-0.0217	0.9512
51024	E12	53242	9321	TRIP11	-0.0217	0.9512
11068	E10	2230	8895	CPNE3	-0.0217	0.9512
11001	B09	2842	404550	C16orf74	-0.0217	0.9513
11077	G11	4529	2720	GLB1	-0.0216	0.9514
11044	G03	4875	10654	PMVK	-0.0216	0.9515
11003	F02	5683	64288	ZNF323	-0.0216	0.9515
11030	H01	7470	83461	CDCA3	-0.0216	0.9515
31029	F11	14197	84669	USP32	-0.0216	0.9515
11052	D04	3796	55862	ECHDC1	-0.0216	0.9515
51020	C01	55789	145873	MESP2	-0.0216	0.9515
31023	B12	13769	54522	ANKRD16	-0.0215	0.9516
51032	C05	55270	84897	TBRG1	-0.0215	0.9516
11032	B08	9709	54463	FAM134B	-0.0215	0.9516
31041	D08	5894	24144	TFIP11	-0.0215	0.9517
11001	G04	657	6274	S100A3	-0.0215	0.9517
11056	E11	2701	6431	SRSF6	-0.0215	0.9517
31016	G04	12697	159013	CXorf38	-0.0215	0.9518
31023	G10	13514	7477	WNT7B	-0.0215	0.9518
11077	D06	4543	5777	PTPN6	-0.0214	0.9518
51006	C11	54784	2646	GCKR	-0.0214	0.9519
11018	B03	7714	56260	C8orf44	-0.0214	0.9519
51017	G02	56725	58530	LY6G6D	-0.0214	0.9519
51030	C11	55236	51588	PIAS4	-0.0214	0.9519

51031	B11	54007	85026	C9orf37	-0.0214	0.9520
51001	G06	54696	353144	LCE3C	-0.0214	0.9520
11058	B09	10047	64854	USP46	-0.0214	0.9520
51026	D10	53219	287015	TRIM42	-0.0213	0.9521
51029	H04	56237	85446	ZFHX2	-0.0213	0.9521
11057	D02	8353	2277	FIGF	-0.0213	0.9521
51005	B10	53657	50943	FOXP3	-0.0213	0.9522
31040	D01	2281	132141	IQCF1	-0.0213	0.9522
31044	G08	8467	5923	RASGRF1	-0.0213	0.9522
11004	A03	949	54433	GAR1	-0.0213	0.9522
31024	H06	13397	11284	PNKP	-0.0213	0.9522
31042	H08	6272	2152	F3	-0.0212	0.9523
51012	E09	54647	80342	TRAF3IP3	-0.0212	0.9523
11071	D12	10070	79675	FASTKD1	-0.0212	0.9523
11062	E09	4769	28981	IFT81	-0.0212	0.9523
11041	F08	6344	11224	RPL35	-0.0212	0.9523
51008	F07	53496	23090	ZNF423	-0.0212	0.9524
51021	B07	55727	23180	RFTN1	-0.0212	0.9524
31040	C10	10186	3310	HSPA6	-0.0211	0.9525
31027	E11	14138	10142	AKAP9	-0.0211	0.9525
51001	H07	56244	348645	C22orf34	-0.0211	0.9525
11016	H09	6250	84914	ZNF587	-0.0211	0.9525
11006	C05	5307	10101	NUBP2	-0.0211	0.9526
11079	F04	2228	219681	ARMC3	-0.0211	0.9526
51003	A04	54891	153770	PLAC8L1	-0.0211	0.9526
51026	F05	55606	4839	NOP2	-0.0211	0.9526
11052	B03	1634	93661	CAPZA3	-0.0211	0.9527
11018	G02	3968	6139	RPL17	-0.0210	0.9527
31008	F11	11621	219402	MTIF3	-0.0210	0.9527
11072	E12	1493	55578	FAM48A	-0.0210	0.9528
31025	E06	13471	64780	MICAL1	-0.0210	0.9528
11066	H11	7424	79912	PYROXD1	-0.0210	0.9529
11010	D09	260	23609	MKRN2	-0.0210	0.9529
11060	B02	3774	7157	TP53	-0.0210	0.9529
11004	D04	385	7079	TIMP4	-0.0210	0.9529
11069	F09	6490	9063	PIAS2	-0.0209	0.9529
11054	B09	554	26269	FBXO8	-0.0209	0.9529
31039	F03	7766	4171	MCM2	-0.0209	0.9530
31043	C06	7644	84936	ZFYVE19	-0.0209	0.9530
31002	E02	10763	150165	XKR3	-0.0209	0.9530
11057	A12	5993	25844	YIPF3	-0.0209	0.9530
31040	B12	7544	81669	CCNL2	-0.0209	0.9530
31036	B05	10859	80789	INTS5	-0.0208	0.9531
11001	E07	9819	5348	FXVD1	-0.0208	0.9531

51004	B08	53732	142684	RAB40A	-0.0208	0.9532
31037	C12	14397	654346	LGALS9C	-0.0208	0.9532
11045	E06	6867	10589	DRAP1	-0.0208	0.9533
11006	C03	7257	54516	MTRF1L	-0.0207	0.9534
51011	E01	53590	5588	PRKCQ	-0.0207	0.9534
31043	G08	7872	3507	IGHM	-0.0207	0.9534
31004	C08	11015	51142	CHCHD2	-0.0207	0.9535
51028	C01	55294	11044	PAPD7	-0.0207	0.9535
51023	F05	56261	2047	EPHB1	-0.0207	0.9536
11069	E12	2161	4300	MLLT3	-0.0206	0.9536
51030	F08	56440	83714	NRIP2	-0.0206	0.9536
31028	G11	15056	146754	DNAH2	-0.0206	0.9536
11050	A09	4158	5655	KLK10	-0.0206	0.9536
11063	B02	2710	8795	TNFRSF10B	-0.0206	0.9537
11017	C12	7822	6206	RPS12	-0.0206	0.9537
11068	D09	1585	166863	RBM46	-0.0206	0.9538
51015	F03	52848	26548	ITGB1BP2	-0.0206	0.9538
11006	H08	2670	3140	MR1	-0.0206	0.9538
31006	A01	11111	220388	CCDC89	-0.0205	0.9538
11082	F09	2607	197196	TMEM148	-0.0205	0.9538
51004	A11	55031	401565	FAM166A	-0.0205	0.9538
11007	B02	6577	54973	CPSF3L	-0.0205	0.9538
31039	E02	9625	9500	MAGED1	-0.0205	0.9538
11018	H09	6647	23279	NUP160	-0.0205	0.9539
11071	A10	9707	81550	TDRD3	-0.0205	0.9539
11078	G07	4910	271	AMPD2	-0.0205	0.9539
31016	F10	12630	81544	GDPD5	-0.0205	0.9539
51005	B08	56132	154743	C7orf60	-0.0205	0.9539
11088	F04	8963	2118	ETV4	-0.0205	0.9540
11020	B05	7527	6120	RPE	-0.0205	0.9540
11022	H04	3320	91	ACVR1B	-0.0204	0.9540
31043	B05	6574	91369	ANKRD40	-0.0204	0.9541
31001	E10	10489	55286	C4orf19	-0.0204	0.9541
11083	C02	2279	150142	C21orf121	-0.0204	0.9541
11058	B10	10132	7044	LEFTY2	-0.0204	0.9541
11085	F01	6473	826	CAPNS1	-0.0204	0.9541
31024	F08	13579	54938	SARS2	-0.0204	0.9541
11088	F07	292	3164	NR4A1	-0.0204	0.9542
11045	G06	1705	114907	FBXO32	-0.0204	0.9542
31010	F02	11352	56919	DHX33	-0.0203	0.9543
11056	A05	1353	3135	HLA-G	-0.0203	0.9543
51022	E08	56163	2068	ERCC2	-0.0203	0.9543
51031	E06	55240	NA	NA	-0.0203	0.9544
31041	E02	6988	80758	PRR7	-0.0203	0.9544

11012	C04	3071	221	ALDH3B1	-0.0203	0.9544
51028	B11	53292	23705	CADM1	-0.0203	0.9544
11058	G11	2509	54733	SLC35F2	-0.0202	0.9545
11002	C08	10007	56986	DTWD1	-0.0202	0.9545
31022	B10	13551	126003	TRAPPC5	-0.0202	0.9546
11013	G03	6780	8623	ASMTL	-0.0202	0.9546
11037	B06	6734	2313	FLI1	-0.0202	0.9546
11049	C04	1085	11010	GLIPR1	-0.0202	0.9546
31045	F04	7275	9843	HEPH	-0.0201	0.9547
11051	D05	4585	3183	HNRNPC	-0.0201	0.9547
51008	B09	55148	57514	ARHGAP31	-0.0201	0.9547
31009	D09	11672	85438	C4orf35	-0.0201	0.9547
11050	E10	4723	7168	TPM1	-0.0201	0.9548
11013	A09	7617	90993	CREB3L1	-0.0201	0.9548
11008	A03	5431	9533	POLR1C	-0.0201	0.9548
11085	A09	78	79025	C20orf195	-0.0201	0.9548
51009	H02	52855	56254	RNF20	-0.0201	0.9548
11005	G04	3541	6132	RPL8	-0.0201	0.9549
11061	G03	4044	408	ARRB1	-0.0201	0.9549
11016	B11	9084	56033	BARX1	-0.0201	0.9549
11074	F03	5562	10286	BCAS2	-0.0201	0.9549
11049	A03	442	5682	PSMA1	-0.0200	0.9549
11067	G06	643	25988	HINFP	-0.0200	0.9549
11085	G03	5323	1876	E2F6	-0.0200	0.9550
11037	G04	3696	2232	FDXR	-0.0200	0.9550
11027	G11	6071	55861	DBNDD2	-0.0200	0.9550
11085	F02	8009	7386	UQCRFS1	-0.0200	0.9550
11081	D02	2514	554207	LOC554207	-0.0200	0.9551
51004	E05	54445	113746	ODF3	-0.0200	0.9551
51012	E11	54797	203611	CDY2B	-0.0200	0.9551
11077	F07	861	3930	LBR	-0.0200	0.9551
11075	E12	4907	11075	STMN2	-0.0199	0.9551
11029	D10	6056	11014	KDELR2	-0.0199	0.9552
51033	C09	53534	10814	CPLX2	-0.0199	0.9552
51027	E07	56385	85366	MYLK2	-0.0199	0.9552
11071	C09	9402	85360	SYDE1	-0.0199	0.9552
11074	B01	1219	25876	SPEF1	-0.0199	0.9552
11009	A03	755	92912	UBE2Q2	-0.0199	0.9552
11075	F01	4745	10945	KDELR1	-0.0198	0.9553
11004	H10	10077	84869	CBR4	-0.0198	0.9554
11025	E08	10015	9020	MAP3K14	-0.0198	0.9555
11049	C01	1699	221458	KIF6	-0.0198	0.9555
51012	A04	54538	8537	BCAS1	-0.0197	0.9556
31041	D12	4174	4689	NCF4	-0.0197	0.9556

11045	E04	545	6193	RPS5	-0.0197	0.9556
11069	F08	9873	10457	GPNMB	-0.0197	0.9557
31014	B01	12067	2005	ELK4	-0.0197	0.9557
51010	C10	52950	6801	STRN	-0.0197	0.9557
31017	B02	12563	5001	ORC5L	-0.0197	0.9558
51028	B09	55298	49856	WDR8	-0.0197	0.9558
51032	G06	55405	374491	LOC374491	-0.0196	0.9558
51025	A06	53252	116966	WDR17	-0.0196	0.9558
51027	E11	56872	23500	DAAM2	-0.0196	0.9558
31045	A03	392	1500	CTNND1	-0.0196	0.9559
31010	E05	11675	83450	LRRC48	-0.0196	0.9559
11064	D11	7198	6258	RXRG	-0.0196	0.9559
31003	H09	10474	57569	ARHGAP20	-0.0196	0.9559
11016	B09	6059	114926	C8orf40	-0.0196	0.9559
31007	F08	11939	3667	IRS1	-0.0195	0.9561
11058	G09	9955	2209	FCGR1A	-0.0195	0.9561
31027	C10	14129	3781	KCNN2	-0.0195	0.9562
31003	C05	10420	10580	SORBS1	-0.0194	0.9563
51033	F10	55018	401135	SYT14L	-0.0194	0.9563
51005	E08	56328	339324	ZNF260	-0.0194	0.9563
51006	B01	54977	553158	PRR5-ARHGAP8	-0.0194	0.9564
11020	C12	4997	56915	EXOSC5	-0.0194	0.9564
11012	C02	4922	23099	ZBTB43	-0.0194	0.9564
51002	C02	52617	8348	HIST1H2BO	-0.0194	0.9564
31027	A03	13877	2838	GPR15	-0.0194	0.9564
51027	G01	56837	5592	PRKG1	-0.0193	0.9564
51032	C09	55415	57209	ZNF248	-0.0193	0.9564
11071	H01	1559	54768	HYDIN	-0.0193	0.9565
11084	B11	623	80346	REEP4	-0.0193	0.9565
51004	G09	54898	79176	FBXL15	-0.0193	0.9566
11009	D09	739	84649	DGAT2	-0.0193	0.9566
31008	B11	11418	58191	CXCL16	-0.0193	0.9566
31029	F07	14350	55586	MIOX	-0.0193	0.9566
31007	C09	11515	1672	DEFB1	-0.0193	0.9566
11049	A02	2899	113791	PIK3IP1	-0.0192	0.9567
11085	C11	7130	65080	MRPL44	-0.0192	0.9567
51025	A11	56862	9814	SFI1	-0.0192	0.9567
11008	G05	234	286075	ZNF707	-0.0192	0.9567
11061	B10	3819	10623	POLR3C	-0.0192	0.9568
51006	H09	53976	26974	ZNF285	-0.0192	0.9568
11012	B11	7749	11027	LILRA2	-0.0192	0.9568
51005	D03	54246	2843	GPR20	-0.0192	0.9568
11086	A12	7228	85302	FBF1	-0.0192	0.9568
11035	A08	5095	1848	DUSP6	-0.0192	0.9568

11088	G03	5435	80178	C16orf59	-0.0192	0.9568
31036	A08	11735	51160	VPS28	-0.0192	0.9569
51004	H07	53294	339524	LOC339524	-0.0191	0.9569
31007	A02	11204	9753	ZSCAN12	-0.0191	0.9570
51025	B12	56838	80012	PHC3	-0.0191	0.9570
31040	D11	5253	54913	RPP25	-0.0191	0.9570
11028	C09	4695	23583	SMUG1	-0.0190	0.9571
11028	B03	3119	7555	CNBP	-0.0190	0.9571
51009	F09	54407	1938	EEF2	-0.0190	0.9571
11088	B09	475	4007	PRICKLE3	-0.0190	0.9571
31034	B05	14979	84289	ING5	-0.0190	0.9571
11063	F02	4783	54540	FAM193B	-0.0190	0.9572
51035	E04	54368	2830	GPR6	-0.0190	0.9572
11082	E05	6346	8365	HIST1H4H	-0.0190	0.9572
31044	D04	4965	4919	ROR1	-0.0190	0.9572
11086	A11	6373	55180	LINS1	-0.0190	0.9573
31037	F10	14249	146664	MGAT5B	-0.0189	0.9574
31008	A06	11342	92086	GGTLC1	-0.0189	0.9574
11078	G01	6156	23339	VPS39	-0.0189	0.9574
11035	H08	8718	26009	ZZZ3	-0.0189	0.9574
11086	B09	3718	2222	FDFT1	-0.0189	0.9575
11020	G11	5254	3028	HSD17B10	-0.0189	0.9575
51006	B03	54911	79872	CBLL1	-0.0189	0.9575
11049	D10	3847	8209	C21orf33	-0.0189	0.9575
31003	A12	10479	84128	WDR75	-0.0189	0.9575
51032	F02	56306	283551	C14orf182	-0.0189	0.9575
31015	E10	12636	28815	IGLV2-14	-0.0188	0.9575
11050	B04	1050	836	CASP3	-0.0188	0.9575
31010	B05	11746	23636	NUP62	-0.0188	0.9576
11013	B07	5296	83985	SPNS1	-0.0188	0.9576
31001	A06	10297	51334	PRR16	-0.0188	0.9577
31027	H09	14086	9541	CIR1	-0.0188	0.9577
31011	A11	11906	374868	ATP9B	-0.0188	0.9577
11015	B11	5392	84850	C9orf70	-0.0187	0.9578
11018	C11	3755	51645	PPIL1	-0.0187	0.9578
51025	C09	55384	9990	SLC12A6	-0.0187	0.9578
31035	G02	14862	2801	GOLGA2	-0.0187	0.9578
11048	F07	5646	8813	DPM1	-0.0187	0.9579
11086	C05	6410	58	ACTA1	-0.0187	0.9580
51012	D11	53966	11044	PAPD7	-0.0187	0.9580
31002	E12	10463	7554	ZNF8	-0.0186	0.9580
11074	C02	3860	6204	RPS10	-0.0186	0.9580
51034	A05	53708	266553	OFCC1	-0.0186	0.9580
11047	C04	6389	51250	C6orf203	-0.0186	0.9581

31045	C05	9562	286527	TMSB15B	-0.0186	0.9581
11057	A05	4888	7476	WNT7A	-0.0186	0.9581
11028	A08	9472	29851	ICOS	-0.0186	0.9581
11088	D08	838	8493	PPM1D	-0.0186	0.9582
11051	C03	6340	112611	RWDD2A	-0.0186	0.9582
11078	G11	1331	57678	GPAM	-0.0186	0.9582
31006	C06	11287	9938	ARHGAP25	-0.0185	0.9582
11062	E06	10058	8428	STK24	-0.0185	0.9583
31022	B11	13390	286257	C9orf142	-0.0185	0.9583
11014	F11	850	3688	ITGB1	-0.0185	0.9584
11051	G05	6339	27284	SULT1B1	-0.0185	0.9584
31005	G10	11007	126823	KLHDC9	-0.0184	0.9585
31041	F10	5123	54460	MRPS21	-0.0184	0.9585
31008	A12	11438	340348	TSPAN33	-0.0184	0.9585
51035	E10	54571	57093	TRIM49	-0.0184	0.9585
31040	B10	8415	221914	GPC2	-0.0184	0.9586
31044	D06	3941	54869	EPS8L1	-0.0184	0.9586
11081	E11	8920	100133941	CD24	-0.0183	0.9588
11054	E11	5231	3927	LASP1	-0.0183	0.9588
11053	C07	8038	2213	FCGR2B	-0.0183	0.9588
31041	E05	5192	29763	PACSIN3	-0.0183	0.9588
11071	G08	9843	11131	CAPN11	-0.0183	0.9588
11056	C02	2749	59345	GNB4	-0.0182	0.9589
31030	E08	14459	83448	PUS7L	-0.0182	0.9589
51023	C05	55899	8481	OFD1	-0.0182	0.9589
51031	B01	55462	114899	C1QTNF3	-0.0182	0.9589
51009	F02	52690	7223	TRPC4	-0.0182	0.9589
11025	H09	4778	3678	ITGA5	-0.0182	0.9590
51001	H10	52924	128826	C20orf166	-0.0182	0.9590
31037	C03	12437	23338	PHF15	-0.0182	0.9590
11036	G09	6865	56649	TMPRSS4	-0.0182	0.9591
11004	F01	568	55905	RNF114	-0.0181	0.9591
51008	F03	54248	152485	ZNF827	-0.0181	0.9591
11074	D02	4354	84285	EIF1AD	-0.0181	0.9591
31037	H10	14125	83851	SYT16	-0.0181	0.9592
51002	F09	52582	26083	TBC1D29	-0.0181	0.9592
51008	E05	54110	5139	PDE3A	-0.0181	0.9592
51032	B04	56095	55592	GOLGA2B	-0.0180	0.9593
11032	D02	1485	2100	ESR2	-0.0180	0.9594
51025	H07	53247	55035	NOL8	-0.0180	0.9594
31018	F06	12970	11017	SNRNP27	-0.0180	0.9595
51026	G03	55293	64132	XYLT2	-0.0180	0.9595
51020	H04	56017	256987	SERINC5	-0.0179	0.9595
51001	A04	52574	140596	DEFB104A	-0.0179	0.9596

31019	C03	13215	196074	METT5D1	-0.0179	0.9597
11060	F09	1390	51704	GPRC5B	-0.0179	0.9597
11078	H02	803	3428	IFI16	-0.0178	0.9598
51032	F04	55433	149950	LOC149950	-0.0178	0.9599
11062	H08	5806	10618	TGOLN2	-0.0177	0.9600
11008	F11	3613	3105	HLA-A	-0.0177	0.9600
51014	F08	52698	79861	TUBAL3	-0.0177	0.9600
11083	G08	3073	5920	RARRES3	-0.0177	0.9600
11004	C10	8995	79894	ZNF672	-0.0177	0.9600
11088	D04	5708	25928	SOSTDC1	-0.0177	0.9601
11075	B04	2280	403312	MGC39545	-0.0177	0.9601
11038	B06	3665	51654	CDK5RAP1	-0.0177	0.9601
11085	E11	9677	375484	C5orf25	-0.0177	0.9601
11030	E07	3210	55277	FGGY	-0.0177	0.9602
11041	F10	5184	84817	TXNDC17	-0.0176	0.9602
11004	E11	589	928	CD9	-0.0176	0.9602
11084	H09	3650	54478	FAM64A	-0.0176	0.9602
31040	C02	2038	199720	GGN	-0.0176	0.9603
11052	G01	3193	27239	GPR162	-0.0176	0.9603
11035	B01	2590	5866	RAB3IL1	-0.0176	0.9603
11080	D12	10108	9372	ZFYVE9	-0.0176	0.9603
51002	E08	55054	643210	FLJ40292	-0.0176	0.9604
11032	E12	1038	51422	PRKAG2	-0.0175	0.9604
31002	C09	10260	23532	PRAME	-0.0175	0.9604
11042	A07	8678	541473	LOC541473	-0.0175	0.9606
11007	A10	8494	283971	CLEC18C	-0.0175	0.9606
51018	E08	56717	386681	KRTAP10-8	-0.0174	0.9606
11089	B05	275	55262	C7orf43	-0.0174	0.9607
31002	G11	10422	7786	MAP3K12	-0.0174	0.9607
11075	C07	1908	199746	U2AF1L4	-0.0174	0.9607
51013	B10	54726	25794	FSCN2	-0.0174	0.9607
51011	B02	53937	85406	DNAJC14	-0.0174	0.9608
11012	C07	6871	25813	SAMM50	-0.0173	0.9610
11001	D02	241	11157	LSM6	-0.0173	0.9610
11026	H11	9355	285203	C3orf64	-0.0173	0.9610
11019	G10	7585	8601	RGS20	-0.0173	0.9610
31015	A03	12406	28956	ROBLD3	-0.0172	0.9611
11088	H06	1024	8697	CDC23	-0.0172	0.9611
11048	B10	1200	5173	PDYN	-0.0172	0.9611
51004	H01	53940	54742	LY6K	-0.0172	0.9611
11052	C07	2757	54962	TIPIN	-0.0172	0.9611
11044	G09	730	3241	HPCAL1	-0.0172	0.9612
11058	D03	9329	2833	CXCR3	-0.0172	0.9612
11062	G06	5141	83931	STK40	-0.0172	0.9612

11064	E09	2522	10475	TRIM38	-0.0172	0.9612
11011	D06	5250	7866	IFRD2	-0.0172	0.9612
11036	G07	9313	946	SIGLEC6	-0.0172	0.9613
11026	B02	2330	394261	C2orf19	-0.0172	0.9613
31005	D03	10811	284348	LYPD5	-0.0172	0.9613
11017	B10	6417	4712	NDUFB6	-0.0171	0.9613
51029	H07	56857	54855	FAM46C	-0.0171	0.9613
51003	F09	55094	400707	LOC400707	-0.0171	0.9613
11058	B07	8074	81569	ACTL8	-0.0171	0.9613
31033	E05	14759	10160	FARP1	-0.0171	0.9614
11027	A11	2255	55275	VPS53	-0.0171	0.9614
31040	F11	7712	84264	HAGHL	-0.0171	0.9614
11087	B09	4791	23616	SH3BP1	-0.0171	0.9614
31010	C04	11372	5611	DNAJC3	-0.0171	0.9615
51009	F06	54921	2914	GRM4	-0.0171	0.9615
51029	E01	56371	9495	AKAP5	-0.0171	0.9615
11057	F01	5854	6652	SORD	-0.0170	0.9616
11017	B02	7725	114899	C1QTNF3	-0.0170	0.9617
11030	E04	5378	54948	MRPL16	-0.0170	0.9617
51015	E11	52955	4956	ODF1	-0.0169	0.9617
51030	D06	55548	399474	TMEM200B	-0.0169	0.9617
51029	F09	56849	57708	MIER1	-0.0169	0.9619
11041	A10	4996	3159	HMGA1	-0.0169	0.9619
11060	B12	7734	10240	MRPS31	-0.0168	0.9620
51009	G04	55008	3698	ITIH2	-0.0168	0.9620
11063	E09	8653	1911	PHC1	-0.0168	0.9620
51006	H07	55447	25900	IFFO1	-0.0168	0.9620
31007	F01	11161	10288	LILRB2	-0.0168	0.9620
11046	F07	2022	151188	ARL6IP6	-0.0168	0.9621
11008	H05	7555	55742	PARVA	-0.0168	0.9621
11039	E12	1525	56261	GPCPD1	-0.0167	0.9622
11040	B10	9143	9403	SEP15	-0.0167	0.9622
11062	C08	4808	6124	RPL4	-0.0167	0.9622
11054	D01	6554	90506	LRRC46	-0.0167	0.9623
11018	D04	7028	23479	ISCU	-0.0167	0.9623
51024	D02	56090	9462	RASAL2	-0.0167	0.9623
11061	H10	4654	79020	C7orf25	-0.0167	0.9624
31001	F02	10271	56063	C1orf91	-0.0167	0.9624
11089	A05	765	221302	ZUFSP	-0.0167	0.9624
11076	H02	3889	55748	CNDP2	-0.0166	0.9624
11089	D01	525	58500	ZNF250	-0.0166	0.9624
51001	G03	52652	84520	C14orf142	-0.0166	0.9624
11072	B05	2346	57700	FAM160B1	-0.0166	0.9624
11055	F07	9033	NA	NA	-0.0166	0.9625

31038	F11	9791	56652	C10orf2	-0.0166	0.9625
11049	G06	5303	92369	SPSB4	-0.0166	0.9625
11049	D07	5516	4291	MLF1	-0.0166	0.9625
51014	B05	52988	1591	CYP24A1	-0.0166	0.9625
31012	D04	12125	159091	FAM122C	-0.0166	0.9625
11034	E11	1177	79608	RIC3	-0.0166	0.9626
31038	C12	3500	5709	PSMD3	-0.0166	0.9626
11073	F01	8877	56894	AGPAT3	-0.0165	0.9627
11089	C03	1739	657	BMPRI1A	-0.0165	0.9627
11029	B04	2047	55723	ASF1B	-0.0165	0.9627
31033	H01	14698	5191	PEX7	-0.0165	0.9628
11056	F08	4795	2766	GMPR	-0.0165	0.9628
11060	A03	2633	5883	RAD9A	-0.0165	0.9628
11088	A01	6357	4057	LTF	-0.0164	0.9628
31025	B08	14051	259240	WFDC9	-0.0164	0.9628
11036	D08	6926	9467	SH3BP5	-0.0164	0.9629
51023	G10	55907	84433	CARD11	-0.0164	0.9629
51012	A12	54725	153642	ARSK	-0.0164	0.9629
11063	F06	8701	3075	CFH	-0.0164	0.9630
11074	E05	1654	90634	N4BP2L1	-0.0164	0.9630
11003	G09	5793	932	MS4A3	-0.0164	0.9630
11061	F11	9744	51466	EVL	-0.0164	0.9630
51024	G06	55176	25929	GEMIN5	-0.0163	0.9631
51023	H10	55902	23414	ZFPM2	-0.0162	0.9633
51006	F08	54528	79654	HECTD3	-0.0162	0.9634
31031	A09	14595	2832	NPBWR2	-0.0162	0.9634
11079	D05	2145	22911	WDR47	-0.0162	0.9634
31041	D04	7686	1045	CDX2	-0.0162	0.9634
51009	B01	53071	9354	UBE4A	-0.0162	0.9634
51003	G10	14035	2254	FGF9	-0.0162	0.9634
11064	C04	1244	51164	DCTN4	-0.0162	0.9635
31005	D05	11309	282679	AQP11	-0.0161	0.9635
31006	C10	11249	2326	FMO1	-0.0161	0.9635
51016	H10	56657	534	ATP6V1G2	-0.0161	0.9636
11026	C04	7451	9978	RBX1	-0.0161	0.9636
11066	C08	6711	54487	DGCR8	-0.0161	0.9636
11038	D01	5981	3297	HSF1	-0.0161	0.9636
11002	F07	8253	323	APBB2	-0.0161	0.9637
31007	F03	10928	10905	MAN1A2	-0.0160	0.9637
31010	B02	11753	51426	POLK	-0.0160	0.9637
51031	A05	56502	2678	GGT1	-0.0160	0.9638
11071	E02	833	6574	SLC20A1	-0.0160	0.9639
31004	D10	11179	23200	ATP11B	-0.0159	0.9639
11078	H01	6892	2132	EXT2	-0.0159	0.9640

31034	C04	14867	344892	RTP2	-0.0159	0.9640
51021	F02	56404	84448	ABLIM2	-0.0159	0.9640
11060	E04	2286	65062	ALS2CR4	-0.0159	0.9640
31039	B12	3393	26015	RPAP1	-0.0159	0.9640
51013	D07	54815	63951	DMRTA1	-0.0159	0.9641
11038	C10	3460	7464	CORO2A	-0.0159	0.9641
11060	D11	1666	9265	CYTH3	-0.0159	0.9641
11085	E08	3599	23017	FAIM2	-0.0159	0.9641
11057	H05	514	81926	FAM108A1	-0.0158	0.9642
11049	G05	8628	50717	DCAF8	-0.0158	0.9642
31034	B04	14860	90480	GADD45GIP1	-0.0158	0.9642
31001	D03	10793	201799	TMEM154	-0.0158	0.9642
11070	H07	7045	10318	TNIP1	-0.0158	0.9642
11078	D11	7279	11218	DDX20	-0.0158	0.9643
51035	C09	54782	957	ENTPD5	-0.0158	0.9643
11005	E02	443	64946	CENPH	-0.0158	0.9643
11083	C11	8241	79969	C6orf134	-0.0157	0.9644
11024	F04	8276	1811	SLC26A3	-0.0157	0.9644
31036	A11	12993	55423	SIRPG	-0.0157	0.9645
11056	G08	4265	3726	JUNB	-0.0157	0.9645
11028	F01	1179	80177	MYCT1	-0.0157	0.9645
11010	D07	523	56923	NMUR2	-0.0157	0.9646
11007	G03	6737	4240	MFGE8	-0.0157	0.9646
11014	A12	834	4034	LRCH4	-0.0157	0.9646
31031	H10	14552	64170	CARD9	-0.0156	0.9646
11002	C11	10182	374768	SPEM1	-0.0156	0.9646
11057	E02	2028	55213	RCBTB1	-0.0156	0.9647
11046	A08	1698	2339	FNTA	-0.0156	0.9647
11067	D06	3057	80153	EDC3	-0.0156	0.9647
11036	D02	7460	55147	RBM23	-0.0156	0.9647
31002	H10	10705	7525	YES1	-0.0156	0.9647
11084	F04	6411	29082	CHMP4A	-0.0156	0.9647
11088	C10	1045	7706	TRIM25	-0.0156	0.9647
11016	D04	5563	4256	MGP	-0.0156	0.9647
11018	A01	6325	29095	ORMDL2	-0.0156	0.9647
31027	F10	15038	10462	CLEC10A	-0.0156	0.9648
31013	C07	12090	5724	PTAFR	-0.0156	0.9648
51034	B04	54003	347517	RAB41	-0.0156	0.9648
11036	D10	1262	1909	EDNRA	-0.0156	0.9648
11022	D06	7839	11047	ADRM1	-0.0156	0.9648
51006	H10	56387	9131	AIFM1	-0.0155	0.9649
11066	F08	9039	9203	ZMYM3	-0.0155	0.9649
51032	H04	53174	11042	SMA5	-0.0155	0.9649
11080	D03	5834	3693	ITGB5	-0.0155	0.9649

11045	F01	3052	64976	MRPL40	-0.0155	0.9649
11042	B05	5627	2167	FABP4	-0.0155	0.9650
11040	C11	1114	2786	GNG4	-0.0155	0.9650
51006	B10	54560	9389	SLC22A14	-0.0155	0.9650
11019	H02	8010	2885	GRB2	-0.0155	0.9650
11073	H10	1116	221044	UCMA	-0.0154	0.9651
11081	D03	9168	8895	CPNE3	-0.0154	0.9652
11074	D07	4196	22818	COPZ1	-0.0154	0.9652
31036	B09	11492	113189	CHST14	-0.0154	0.9652
31032	C09	14783	4308	TRPM1	-0.0154	0.9652
31012	B05	11970	10633	RASL10A	-0.0154	0.9652
11068	H03	480	55773	TBC1D23	-0.0154	0.9653
11055	C07	1174	9796	PHYHIP	-0.0153	0.9653
11049	A06	2400	55907	CMAS	-0.0153	0.9653
11079	H10	4540	3683	ITGAL	-0.0153	0.9654
11002	F01	8362	1482	NKX2-5	-0.0153	0.9654
51020	B02	56795	9066	SYT7	-0.0153	0.9654
11088	A11	749	726	CAPN5	-0.0153	0.9655
11061	A02	3806	26135	SERBP1	-0.0153	0.9655
51032	C10	55381	29797	POM121L8P	-0.0152	0.9655
51006	E04	53699	203062	TSNARE1	-0.0152	0.9655
11021	B12	5501	3126	HLA-DRB4	-0.0152	0.9655
31042	A02	4861	30844	EHD4	-0.0152	0.9656
11040	G10	8048	6278	S100A7	-0.0152	0.9656
11015	F07	5258	339500	ZNF678	-0.0152	0.9656
11041	F09	2160	56158	TEX12	-0.0152	0.9656
11006	B12	2665	2707	GJB3	-0.0152	0.9656
11026	G11	8315	6981	TRGV7	-0.0152	0.9657
11002	F11	10094	93973	ACTR8	-0.0152	0.9657
11006	A04	9244	122786	FRMD6	-0.0152	0.9657
51009	C02	52852	10529	NEBL	-0.0152	0.9657
31020	C10	12992	2532	DARC	-0.0152	0.9657
31042	B11	5071	10078	TSSC4	-0.0151	0.9657
11086	C09	7796	3916	LAMP1	-0.0151	0.9658
51017	A10	56517	92070	C4orf42	-0.0151	0.9658
11046	D09	1947	84513	PPAPDC1B	-0.0151	0.9658
51006	E02	56150	149628	PYHIN1	-0.0151	0.9659
31008	C09	11641	55751	TMEM184C	-0.0151	0.9659
51002	H02	55092	400997	FLJ44006	-0.0151	0.9659
11030	B03	6090	79038	ZFYVE21	-0.0151	0.9659
11025	B10	8381	11259	FILIP1L	-0.0150	0.9660
31041	E12	3780	23648	SSBP3	-0.0150	0.9660
31006	F08	10938	54813	KLHL28	-0.0150	0.9660
31040	C07	10165	1414	CRYBB1	-0.0150	0.9660

11051	A02	6917	115708	TRMT61A	-0.0150	0.9660
11041	H11	880	8969	HIST1H2AG	-0.0150	0.9660
51017	D09	56378	27190	IL17B	-0.0150	0.9660
11039	E02	1468	8653	DDX3Y	-0.0150	0.9661
11056	E05	526	92667	C20orf72	-0.0150	0.9661
11017	H11	3982	4118	MAL	-0.0149	0.9662
11006	F02	5418	1468	SLC25A10	-0.0149	0.9662
11074	A08	2194	200523	C2orf51	-0.0149	0.9662
11022	D01	7380	23063	WAPAL	-0.0149	0.9662
51003	G08	52612	10143	CLEC3A	-0.0149	0.9662
51018	E09	55992	11249	NXPH2	-0.0149	0.9663
11076	A07	2237	131831	FAM194A	-0.0149	0.9663
51023	E05	56233	64062	RBM26	-0.0149	0.9663
11030	E05	8006	79139	DERL1	-0.0149	0.9663
11044	G10	922	1466	CSRP2	-0.0149	0.9663
31003	D07	10423	92104	TTC30A	-0.0149	0.9663
11052	E12	2140	7008	TEF	-0.0149	0.9663
31017	E02	12521	51379	CRLF3	-0.0149	0.9664
11079	B09	10091	51284	TLR7	-0.0149	0.9664
11080	F10	9691	57592	ZNF687	-0.0149	0.9664
11039	H04	1602	80705	TSGA10	-0.0148	0.9664
11017	B04	5730	797	CALCB	-0.0148	0.9665
31034	G04	14857	78990	OTUB2	-0.0148	0.9665
11027	B12	1536	414061	DNAJB3	-0.0148	0.9666
11004	A02	295	23423	TMED3	-0.0148	0.9666
11055	D06	5725	84912	SLC35B4	-0.0148	0.9666
11025	B02	2336	9568	GABBR2	-0.0147	0.9666
11045	F05	4332	10105	PPIF	-0.0147	0.9667
11006	D05	1208	90809	TMEM55B	-0.0147	0.9667
31006	B01	11299	1556	CYP2B7P1	-0.0147	0.9667
11003	F09	5447	5997	RGS2	-0.0147	0.9667
11004	E09	5403	80019	UBTD1	-0.0147	0.9668
51030	G03	55480	4356	MPP3	-0.0146	0.9669
11026	E08	215	84557	MAP1LC3A	-0.0146	0.9669
11034	B09	6289	3964	LGALS8	-0.0146	0.9669
51029	B11	56471	338917	VSX2	-0.0146	0.9669
11025	C07	5082	81	ACTN4	-0.0146	0.9670
11071	H11	6643	4176	MCM7	-0.0146	0.9670
11024	F08	4765	3689	ITGB2	-0.0145	0.9671
51001	B01	52578	27160	INGX	-0.0145	0.9671
11061	D01	2309	162972	ZNF550	-0.0145	0.9671
51010	B08	54690	54754	FAM22F	-0.0145	0.9671
11080	E09	1152	8500	PPFIA1	-0.0145	0.9671
11026	B08	2210	NA	NA	-0.0145	0.9672

11083	G06	6968	79897	RPP21	-0.0145	0.9672
51028	F03	56626	51143	DYNC1LI1	-0.0145	0.9672
11024	B01	4369	79954	NOL10	-0.0145	0.9672
31013	D03	12129	79089	TMUB2	-0.0144	0.9673
11064	D09	10223	139170	DCAF12L1	-0.0144	0.9673
11024	C06	9380	2035	EPB41	-0.0144	0.9674
11064	B09	2388	55255	WDR41	-0.0144	0.9674
31019	F04	13206	27141	CIDEB	-0.0144	0.9674
11079	E09	1526	10517	FBXW10	-0.0144	0.9674
11050	C06	4451	84319	C3orf26	-0.0144	0.9675
51028	F04	53150	83874	TBC1D10A	-0.0144	0.9675
11060	C02	5272	79750	ZNF385D	-0.0144	0.9675
31039	C03	3178	9416	DDX23	-0.0144	0.9675
31010	C11	11379	22979	EFR3B	-0.0143	0.9675
11004	B09	9245	154075	SAMD3	-0.0143	0.9675
11012	C10	6168	113278	C20orf54	-0.0143	0.9676
11083	H03	2820	56911	C21orf7	-0.0143	0.9676
11007	D02	2838	55069	C7orf42	-0.0143	0.9676
51008	C01	54912	163589	TDRD5	-0.0143	0.9677
11072	A09	8102	51514	DTL	-0.0143	0.9677
31008	H10	11561	129303	TMEM150A	-0.0143	0.9677
11070	H02	10088	29127	RACGAP1	-0.0143	0.9677
11026	A04	945	84719	NCRNA00260	-0.0142	0.9677
11043	G06	2724	79077	DCTPP1	-0.0142	0.9679
11024	G01	9494	9013	TAF1C	-0.0142	0.9679
11085	B05	6359	894	CCND2	-0.0142	0.9679
51020	H03	56669	23705	CADM1	-0.0141	0.9680
31045	B04	6906	9138	ARHGEF1	-0.0141	0.9680
51026	C02	56836	5586	PKN2	-0.0141	0.9680
11016	D12	9001	27067	STAU2	-0.0141	0.9681
31009	D10	11789	27237	ARHGEF16	-0.0140	0.9682
51030	D10	55335	58497	PRUNE	-0.0140	0.9683
51006	B05	55723	8435	SOAT2	-0.0140	0.9683
31039	E11	3538	4775	NFATC3	-0.0140	0.9683
11050	D07	7187	22924	MAPRE3	-0.0140	0.9683
31003	E06	10433	79838	TMC5	-0.0140	0.9683
51016	F11	56432	401508	FAM74A4	-0.0140	0.9684
51029	F10	55571	338442	GPR109A	-0.0139	0.9685
11041	E01	7166	2315	MLANA	-0.0139	0.9686
51006	F03	53851	283652	SLC24A5	-0.0139	0.9686
11047	A01	5108	64423	INF2	-0.0138	0.9687
11058	C03	4982	51225	ABI3	-0.0138	0.9687
31010	H04	11819	51701	NLK	-0.0138	0.9688
31024	F06	13616	65980	BRD9	-0.0137	0.9688

11025	D07	9538	3101	HK3	-0.0137	0.9689
31004	H10	10830	63917	GALNT11	-0.0137	0.9689
11045	F06	4853	8817	FGF18	-0.0137	0.9689
11003	C02	9527	115795	C3orf24	-0.0137	0.9690
11028	A10	3706	572	BAD	-0.0137	0.9690
31037	B05	13340	866	SERPINA6	-0.0137	0.9690
31001	G03	10722	200895	DHFRL1	-0.0136	0.9691
51030	B01	56436	149069	DCDC2B	-0.0136	0.9691
11075	G01	4929	9242	MSC	-0.0136	0.9691
11082	G04	9036	8637	EIF4EBP3	-0.0136	0.9692
11077	C12	2236	222235	FBXL13	-0.0136	0.9692
11006	H06	5684	644	BLVRA	-0.0136	0.9692
31039	E10	828	9306	SOCS6	-0.0136	0.9692
11070	D06	8377	64123	ELTD1	-0.0136	0.9692
51030	G11	55388	144715	RAD9B	-0.0136	0.9693
51012	F06	53109	147949	ZNF583	-0.0136	0.9693
11007	B08	8095	256380	SCML4	-0.0135	0.9693
11037	G11	5233	79979	TRMT2B	-0.0135	0.9693
11043	C05	8670	594855	CPLX3	-0.0135	0.9693
11013	F11	5235	10956	OS9	-0.0135	0.9694
51034	G02	54978	389118	CDHR4	-0.0135	0.9694
11027	H07	2168	126123	IZUMO2	-0.0135	0.9694
31036	F07	11983	2949	GSTM5	-0.0135	0.9694
11001	C09	3089	9324	HMG3	-0.0135	0.9694
11084	F12	9194	26119	LDLRAP1	-0.0135	0.9695
51006	A11	54263	6539	SLC6A12	-0.0134	0.9696
11050	A06	576	201158	FAM18B2	-0.0134	0.9696
11070	G09	7773	284403	WDR62	-0.0134	0.9696
11006	G05	3061	26063	DECR2	-0.0134	0.9697
11071	H03	6034	55324	ABCF3	-0.0133	0.9698
51009	B04	52952	9849	ZNF518A	-0.0133	0.9698
51029	G04	56597	57335	ZNF286A	-0.0133	0.9698
31044	B07	3565	84717	HDGFRP2	-0.0133	0.9698
11046	C11	4284	80762	NDFIP1	-0.0133	0.9698
11018	C03	6304	10249	GLYAT	-0.0133	0.9698
11053	G09	836	3964	LGALS8	-0.0133	0.9698
31001	E06	10405	116135	LRRC3B	-0.0133	0.9698
11055	A07	4481	11285	B4GALT7	-0.0133	0.9698
51034	A02	53726	599	BCL2L2	-0.0133	0.9699
11085	E12	466	116535	MRGPRF	-0.0133	0.9699
31006	A09	10990	51588	PIAS4	-0.0133	0.9699
11013	E10	2987	10298	PAK4	-0.0132	0.9700
11076	F12	2592	2077	ERF	-0.0132	0.9700
51001	C07	54402	8369	HIST1H4G	-0.0132	0.9700

31024	E09	13632	130557	ZNF513	-0.0132	0.9701
11001	D10	2760	79024	MGC5590	-0.0131	0.9702
11018	C08	6045	9636	ISG15	-0.0131	0.9702
11087	H08	7900	26002	MOXD1	-0.0131	0.9702
51009	D05	52856	27134	TJP3	-0.0131	0.9703
31042	B10	5302	92106	OXNAD1	-0.0131	0.9703
31031	F11	14506	5577	PRKAR2B	-0.0131	0.9703
11018	H05	7494	54532	USP53	-0.0131	0.9704
11040	G03	8614	55471	C2orf56	-0.0131	0.9704
31015	E02	12799	30851	TAX1BP3	-0.0130	0.9704
51002	G09	54440	8988	HSPB3	-0.0130	0.9705
31022	F01	13492	152195	NUDT16P1	-0.0130	0.9705
11003	C03	5406	84332	DYDC2	-0.0130	0.9705
11060	C09	4396	81576	CCDC130	-0.0130	0.9705
51006	A03	53879	399664	MEX3D	-0.0130	0.9706
51031	C09	53224	221391	OPN5	-0.0130	0.9706
11061	G07	2317	57687	VAT1L	-0.0129	0.9706
11017	F11	6641	55740	ENAH	-0.0129	0.9706
11085	C02	4841	51171	HSD17B14	-0.0129	0.9707
11016	C03	6484	55851	PSENE1	-0.0129	0.9707
51011	A11	55123	57613	KIAA1467	-0.0129	0.9708
31040	B04	9238	162137	MGC34800	-0.0129	0.9708
11042	A12	4228	79966	SCD5	-0.0128	0.9709
11051	G04	5794	644	BLVRA	-0.0128	0.9709
31029	A03	14226	58497	PRUNE	-0.0128	0.9709
11022	B12	9183	1181	CLCN2	-0.0128	0.9709
11073	C07	2481	170393	C10orf91	-0.0128	0.9709
11085	F03	4681	29903	CCDC106	-0.0128	0.9710
11046	D06	4333	51652	VPS24	-0.0127	0.9711
31010	F05	11643	8986	RPS6KA4	-0.0127	0.9711
11049	G01	2922	3488	IGFBP5	-0.0127	0.9711
31016	G01	12749	7580	ZNF32	-0.0127	0.9711
31043	D02	7270	10084	PQBP1	-0.0127	0.9712
11054	H03	9558	758	MPPED1	-0.0127	0.9712
11061	F03	8399	3249	HPN	-0.0127	0.9712
11083	E01	3566	55092	TMEM51	-0.0127	0.9712
51035	H01	54637	252884	ZNF396	-0.0127	0.9712
11027	G03	8040	54534	MRPL50	-0.0127	0.9712
51013	A02	55002	23203	PMPCA	-0.0127	0.9713
11058	D10	9377	4987	OPRL1	-0.0127	0.9713
11071	D03	199	94121	SYTL4	-0.0126	0.9714
51029	F03	55692	122769	PPIL5	-0.0126	0.9714
11040	E08	8889	55652	SLC48A1	-0.0126	0.9714
31020	E07	13015	2212	FCGR2A	-0.0126	0.9714

11028	A01	2645	26511	CHIC2	-0.0126	0.9715
11047	A12	6566	84869	CBR4	-0.0126	0.9715
51030	H04	55632	5634	PRPS2	-0.0126	0.9715
31024	E10	13409	92689	FAM114A1	-0.0126	0.9715
51027	A10	55629	259307	IL4I1	-0.0125	0.9715
31005	C08	11092	64122	FN3K	-0.0125	0.9715
31033	E10	14960	391356	C2orf79	-0.0125	0.9716
51003	E10	54508	641372	ACOT6	-0.0125	0.9716
31039	G02	9438	10607	TBL3	-0.0125	0.9716
51035	G10	54914	6898	TAT	-0.0125	0.9716
31028	F05	14111	252884	ZNF396	-0.0125	0.9717
31018	A09	13166	256355	RPS2P32	-0.0125	0.9717
31039	B10	270	10493	VAT1	-0.0125	0.9717
11002	B02	8602	11074	TRIM31	-0.0124	0.9718
11022	B08	7668	387338	NSUN4	-0.0124	0.9718
51002	G06	52657	283459	GATC	-0.0124	0.9718
11069	C09	4121	2329	FMO4	-0.0124	0.9718
31001	A07	10507	85403	EAF1	-0.0124	0.9718
11071	H10	6811	8379	MAD1L1	-0.0124	0.9718
11051	B01	1588	220972	MARCH8	-0.0124	0.9718
11077	B09	1657	25939	SAMHD1	-0.0124	0.9719
11018	G11	4013	4714	NDUFB8	-0.0124	0.9719
11048	D12	854	6132	RPL8	-0.0123	0.9720
31040	E06	9668	3535	IGL@	-0.0123	0.9721
31021	E05	13094	5678	PSG9	-0.0123	0.9721
51001	F03	52684	55539	KCNQ1DN	-0.0123	0.9721
31002	D10	10557	1133	CHRM5	-0.0123	0.9721
51026	D04	55424	57715	SEMA4G	-0.0123	0.9721
11012	B08	7133	143630	UBQLNL	-0.0123	0.9722
11070	E10	212	5993	RFX5	-0.0123	0.9722
11025	E11	2450	10392	NOD1	-0.0122	0.9723
31024	C08	13718	147495	APCDD1	-0.0122	0.9723
11043	E07	5454	79868	ALG13	-0.0122	0.9723
11018	C01	7656	10630	PDPN	-0.0122	0.9724
11087	D09	378	55621	TRMT1	-0.0122	0.9724
11086	E04	9541	9697	TRAM2	-0.0122	0.9724
51004	C07	54030	3215	HOXB5	-0.0121	0.9724
31016	G06	12556	285367	RPUSD3	-0.0121	0.9724
31004	D12	10993	27338	UBE2S	-0.0121	0.9725
11048	G03	6462	3113	HLA-DPA1	-0.0121	0.9725
51009	E11	53698	79674	VEPH1	-0.0121	0.9725
11076	E01	5990	54976	C20orf27	-0.0121	0.9725
51023	F06	53692	7093	TLL2	-0.0121	0.9725
11079	D08	9701	55226	NAT10	-0.0121	0.9725

11075	C03	1043	80097	MZT2B	-0.0121	0.9725
11073	E12	4301	84267	C9orf64	-0.0121	0.9726
51030	B06	56675	375248	ANKRD36	-0.0121	0.9726
51025	A03	56353	10725	NFAT5	-0.0120	0.9726
11018	A10	9172	57708	MIER1	-0.0120	0.9727
11050	B09	429	114904	C1QTNF6	-0.0120	0.9728
11021	H01	3412	51571	FAM49B	-0.0120	0.9728
11045	G11	31	8773	SNAP23	-0.0120	0.9728
11081	H11	2318	128439	SNHG11	-0.0119	0.9729
11029	G08	312	6815	STYX	-0.0119	0.9729
11011	D02	670	51203	NUSAP1	-0.0119	0.9730
11060	C12	8446	148022	TICAM1	-0.0119	0.9730
11003	H10	5952	8766	RAB11A	-0.0119	0.9730
11045	C11	9839	56311	ANKRD7	-0.0119	0.9731
51026	D09	56688	23185	LARP4B	-0.0119	0.9731
11017	G11	7960	51234	TMEM85	-0.0118	0.9731
11021	A10	5474	354	KLK3	-0.0118	0.9731
31007	D10	11531	79970	ZNF767	-0.0118	0.9731
51026	A11	53372	11194	ABCB8	-0.0118	0.9732
11051	B07	5909	56181	FAM54B	-0.0118	0.9732
11032	C10	8293	28778	IGLV6-57	-0.0118	0.9732
11076	H03	4526	11252	PACSIN2	-0.0118	0.9733
11077	A12	8539	1048	CEACAM5	-0.0118	0.9733
11025	C03	4536	4171	MCM2	-0.0118	0.9733
11028	B01	3090	55954	ZMAT5	-0.0117	0.9733
51011	D02	53930	85406	DNAJC14	-0.0117	0.9733
51020	H08	56599	153020	RASGEF1B	-0.0117	0.9733
11006	H11	8442	55924	C1orf183	-0.0117	0.9734
11061	A04	4947	92595	ZNF764	-0.0117	0.9734
11043	A10	5728	7320	UBE2B	-0.0117	0.9734
31032	B12	14761	89910	UBE3B	-0.0117	0.9734
11067	H03	7094	90993	CREB3L1	-0.0117	0.9734
11006	C04	7000	1312	COMT	-0.0117	0.9734
51032	C06	14135	63947	DMRTC1	-0.0117	0.9735
31023	E04	13351	55208	DCUN1D2	-0.0117	0.9735
11027	C02	145	5805	PTS	-0.0116	0.9736
51034	E02	53811	6991	TCTE3	-0.0116	0.9736
31028	F02	15041	26149	ZNF658	-0.0116	0.9736
11025	C04	5171	5708	PSMD2	-0.0116	0.9736
31033	H11	14897	253635	CCDC75	-0.0116	0.9736
11027	E04	2018	100288797	LOC100288797	-0.0116	0.9737
11078	C09	7784	9832	JAKMIP2	-0.0116	0.9737
11017	C04	6629	90737	PAGE5	-0.0116	0.9737
51032	C12	56828	353145	LCE3E	-0.0115	0.9738

11072	H07	2332	85376	RIMBP3	-0.0115	0.9738
11059	G02	4857	10062	NR1H3	-0.0115	0.9738
11020	C08	5764	79038	ZFYVE21	-0.0115	0.9738
11049	F08	5870	3205	HOXA9	-0.0115	0.9739
11040	E02	8971	1870	E2F2	-0.0115	0.9739
51031	G07	53158	55916	NXT2	-0.0115	0.9739
11016	A06	5661	5342	PLGLB2	-0.0115	0.9739
11022	F11	7265	55638	SYBU	-0.0114	0.9740
51004	E12	54627	221830	TWISTNB	-0.0114	0.9740
11082	F10	1191	2172	FABP6	-0.0114	0.9741
11076	D12	4020	11200	CHEK2	-0.0114	0.9741
51030	C03	56460	90835	C16orf93	-0.0114	0.9741
51006	A07	54137	283208	P4HA3	-0.0114	0.9741
11002	B11	9514	51083	GAL	-0.0114	0.9741
31033	B03	14713	7408	VASP	-0.0114	0.9742
11082	B12	2285	554206	LOC554206	-0.0114	0.9742
51027	F09	53309	10570	DPYSL4	-0.0113	0.9743
11073	A02	4831	85019	C18orf45	-0.0113	0.9743
31002	F05	10269	5232	PGK2	-0.0113	0.9743
11004	B11	9030	26027	ACOT11	-0.0113	0.9743
31038	E04	14589	2846	LPAR4	-0.0113	0.9744
51028	H04	55396	151011	SEPT10	-0.0113	0.9744
51018	A11	56524	386677	KRTAP10-1	-0.0113	0.9744
11068	A05	202	23074	UHRF1BP1L	-0.0113	0.9744
11053	E03	5614	2267	FGL1	-0.0113	0.9744
11085	B10	647	84726	BAT2L1	-0.0112	0.9745
51029	B07	53304	150472	CBWD2	-0.0112	0.9745
11082	C01	9133	3669	ISG20	-0.0112	0.9745
11011	E10	7019	7551	ZNF3	-0.0112	0.9746
11068	F03	4568	55280	CWF19L1	-0.0112	0.9746
51012	F07	53656	2535	FZD2	-0.0112	0.9746
51005	H09	54902	5599	MAPK8	-0.0112	0.9746
11001	H06	540	2919	CXCL1	-0.0112	0.9746
51029	H10	56468	126868	C1orf161	-0.0111	0.9747
51027	C01	56924	57532	NUFIP2	-0.0111	0.9747
11022	H01	3712	55218	EXD2	-0.0111	0.9747
11002	A10	796	54955	C1orf109	-0.0111	0.9747
51035	F06	54981	55871	CBWD1	-0.0111	0.9748
11077	A05	2040	220965	FAM13C	-0.0111	0.9748
11021	A12	7190	3119	HLA-DQB1	-0.0111	0.9748
11045	G09	4591	1212	CLTB	-0.0111	0.9748
31002	F08	10540	84450	ZNF512	-0.0111	0.9748
11049	F09	6030	5245	PHB	-0.0110	0.9750
11056	E06	2755	55146	ZDHHC4	-0.0110	0.9750

11034	B03	6108	9052	GPRC5A	-0.0110	0.9750
11019	C09	7408	116441	TM4SF18	-0.0110	0.9750
11024	G02	10110	5863	RGL2	-0.0109	0.9751
11073	B05	4269	10899	JTB	-0.0109	0.9751
31041	A05	9053	57142	RTN4	-0.0109	0.9751
11062	B11	8437	144193	AMDHD1	-0.0109	0.9752
11008	D10	263	4856	NOV	-0.0109	0.9752
31008	C11	11592	220323	OAF	-0.0109	0.9752
11056	D11	5457	26751	SH3YL1	-0.0109	0.9753
51005	C04	54184	148109	FAM187B	-0.0109	0.9753
31017	B10	13063	57817	HAMP	-0.0109	0.9753
11047	G07	4095	55013	CCDC109B	-0.0109	0.9753
51035	B02	53803	254042	MAP1D	-0.0109	0.9753
11006	F04	8394	3903	LAIR1	-0.0109	0.9753
11085	C12	3971	23647	ARFIP2	-0.0109	0.9753
11036	B05	6038	871	SERPINH1	-0.0108	0.9754
11074	H05	8895	10528	NOP56	-0.0108	0.9754
31003	D01	10531	161835	FSIP1	-0.0108	0.9754
11088	A10	400	89866	SEC16B	-0.0108	0.9754
31016	D09	12657	755	C21orf2	-0.0108	0.9754
11058	D05	8086	6752	SSTR2	-0.0108	0.9754
31045	E09	7928	54820	NDE1	-0.0108	0.9754
51035	F09	54152	27303	RBMS3	-0.0108	0.9754
11054	D04	1253	1393	CRHBP	-0.0108	0.9754
51035	C04	54218	5460	POU5F1	-0.0108	0.9755
11053	E12	4824	11343	MGLL	-0.0108	0.9755
11087	G08	291	1781	DYNC1I2	-0.0108	0.9755
11088	A06	8285	64881	PCDH20	-0.0108	0.9755
11049	B10	1049	51107	APH1A	-0.0108	0.9755
11011	B07	8872	54882	ANKHD1	-0.0107	0.9756
11032	C06	9511	28990	ASTE1	-0.0107	0.9756
31044	C05	4685	22928	SEPHS2	-0.0107	0.9756
11045	B04	510	8738	CRADD	-0.0107	0.9756
11039	B06	5280	10992	SF3B2	-0.0107	0.9757
11079	A01	5884	9894	TELO2	-0.0107	0.9757
11069	D03	6510	91775	FAM55C	-0.0107	0.9757
11078	A10	5820	8751	ADAM15	-0.0107	0.9758
11003	G10	9759	338339	CLEC4D	-0.0107	0.9758
11053	C08	4577	6382	SDC1	-0.0106	0.9758
31030	B09	14297	54455	FBXO42	-0.0106	0.9760
51025	C03	56885	9202	ZMYM4	-0.0105	0.9761
51029	B03	55634	989	SEPT7	-0.0105	0.9761
11022	A07	7651	3561	IL2RG	-0.0105	0.9762
51001	F01	52620	118421	NCRNA00161	-0.0105	0.9762

11081	D09	4122	79158	GNPTAB	-0.0105	0.9762
11006	E12	9495	79841	AGBL2	-0.0104	0.9762
11073	E10	2511	63027	SLC22A23	-0.0104	0.9762
11082	A02	8847	23518	R3HDM1	-0.0104	0.9763
11039	C09	5949	7753	ZNF202	-0.0104	0.9763
11036	F03	4664	9319	TRIP13	-0.0104	0.9763
31011	A12	11999	55744	C7orf44	-0.0104	0.9763
31004	F01	10712	7301	TYRO3	-0.0104	0.9763
31007	F07	10846	9989	PPP4R1	-0.0104	0.9764
51002	H08	52697	54866	PPP1R14D	-0.0104	0.9764
31009	D03	11490	129401	NUP35	-0.0104	0.9764
51008	B03	55186	9187	SLC24A1	-0.0104	0.9764
11032	F11	2245	253980	KCTD13	-0.0103	0.9765
11069	D11	6466	55731	C17orf63	-0.0103	0.9765
51013	F06	52918	118663	BTBD16	-0.0103	0.9765
11001	D11	9336	8396	PIP4K2B	-0.0103	0.9765
11072	B09	482	79092	CARD14	-0.0103	0.9766
11053	A08	182	55379	LRRC59	-0.0103	0.9766
11029	B06	6773	7104	TM4SF4	-0.0103	0.9767
31029	C11	14349	284273	ZADH2	-0.0102	0.9767
11087	G06	4394	56896	DPYSL5	-0.0102	0.9767
31031	D02	14489	2512	FTL	-0.0102	0.9767
11082	F05	9334	9746	CLSTN3	-0.0102	0.9768
11072	D06	6911	2677	GGCX	-0.0102	0.9768
11052	F04	6783	79680	C22orf29	-0.0102	0.9768
11001	C02	10104	6418	SET	-0.0102	0.9768
11058	H04	955	60	ACTB	-0.0102	0.9768
11027	F12	2694	5935	RBM3	-0.0102	0.9768
31008	D05	11732	81618	ITM2C	-0.0102	0.9768
31025	H06	13677	222663	SCUBE3	-0.0102	0.9769
51026	E03	56209	91156	IGFN1	-0.0101	0.9769
31025	A10	14055	8368	HIST1H4L	-0.0101	0.9769
11053	H05	2324	151531	UPP2	-0.0101	0.9769
11008	A06	193	10363	HMG20A	-0.0101	0.9770
11038	E01	5915	51163	DBR1	-0.0101	0.9770
51034	G01	55056	401563	C9orf139	-0.0100	0.9771
11072	D11	3648	6304	SATB1	-0.0100	0.9772
51034	F02	54465	200315	APOBEC3A	-0.0100	0.9772
11029	F10	3570	26253	CLEC4E	-0.0100	0.9772
11073	A10	3816	4814	NINJ1	-0.0100	0.9773
31033	F04	14704	55735	DNAJC11	-0.0100	0.9773
51003	A05	52956	353	APRT	-0.0100	0.9773
11087	E09	6852	10994	ILVBL	-0.0099	0.9774
51027	B05	55305	89953	KLC4	-0.0099	0.9774

11070	F12	7581	79613	TMCO7	-0.0099	0.9774
11024	A12	4367	1209	CLPTM1	-0.0099	0.9775
11016	G02	7735	6231	RPS26	-0.0099	0.9775
11051	D03	3160	839	CASP6	-0.0099	0.9775
31032	A11	14781	8756	ADAM7	-0.0099	0.9775
11019	D03	6536	26153	KIF26A	-0.0098	0.9776
11060	C04	5717	55871	CBWD1	-0.0098	0.9776
11058	B08	8796	25902	MTHFD1L	-0.0098	0.9777
11022	E06	7144	4782	NFIC	-0.0098	0.9777
11002	B01	38	6176	RPLP1	-0.0098	0.9778
11054	E10	4860	84312	BRMS1L	-0.0098	0.9778
11050	G11	3031	2040	STOM	-0.0097	0.9779
11080	B07	1972	10749	KIF1C	-0.0097	0.9779
11052	G07	363	10949	HNRNPA0	-0.0097	0.9780
11058	C01	4913	54663	WDR74	-0.0097	0.9780
11005	G11	9144	9963	SLC23A1	-0.0097	0.9780
51021	A03	56400	55693	KDM4D	-0.0097	0.9780
11002	E06	10226	29909	GPR171	-0.0097	0.9780
11018	F06	9177	8520	HAT1	-0.0096	0.9780
51004	C06	56242	148534	TMEM56	-0.0096	0.9780
31041	C12	3765	132	ADK	-0.0096	0.9780
31040	C09	10086	550	AUP1	-0.0096	0.9781
51014	A05	53025	7541	ZFP161	-0.0096	0.9781
31042	F11	5548	55328	RNLS	-0.0096	0.9781
11022	A12	7176	5029	P2RY2	-0.0096	0.9781
11067	B10	7647	5711	PSMD5	-0.0096	0.9782
11006	G04	3701	1020	CDK5	-0.0096	0.9782
51002	B06	54759	389320	C5orf48	-0.0096	0.9782
11054	B04	3266	79644	SRD5A3	-0.0095	0.9783
11038	F02	5816	57617	VPS18	-0.0095	0.9783
51015	G06	52849	200539	ANKRD23	-0.0095	0.9783
11007	G11	3734	4046	LSP1	-0.0095	0.9783
11013	D10	7298	3853	KRT6A	-0.0095	0.9783
11073	B09	2425	54957	TXNL4B	-0.0095	0.9784
11081	B02	6506	NA	NA	-0.0095	0.9784
11002	B10	9938	27232	GNMT	-0.0095	0.9785
11016	C11	5664	27258	LSM3	-0.0094	0.9785
11045	D10	771	50810	HDGFRP3	-0.0094	0.9785
11076	E07	2073	256471	MFSD8	-0.0094	0.9786
11009	B09	300	2592	GALT	-0.0094	0.9786
31041	E03	7116	64083	GOLPH3	-0.0094	0.9787
51002	C07	52596	283422	C12orf36	-0.0094	0.9787
11021	D08	5455	6503	SLA	-0.0093	0.9787
11062	D03	9915	115350	FCRL1	-0.0093	0.9788

11054	G03	5515	3987	LIMS1	-0.0093	0.9788
11060	A08	4635	27316	RBMX	-0.0093	0.9788
11030	A07	3999	5049	PAFAH1B2	-0.0093	0.9789
11009	G05	1838	81628	TSC22D4	-0.0092	0.9790
11017	B12	5782	84298	LLPH	-0.0092	0.9790
11015	C11	9004	11261	CHP	-0.0092	0.9790
51024	B04	56239	114821	SCAND3	-0.0092	0.9790
11072	D03	142	9927	MFN2	-0.0092	0.9790
51029	A11	55498	2140	EYA3	-0.0092	0.9790
11088	H07	817	590	BCHE	-0.0092	0.9791
11040	B02	2460	6235	RPS29	-0.0092	0.9791
51031	D12	56903	440482	ANKRD20A5	-0.0092	0.9791
31029	F03	14277	1270	CNTF	-0.0092	0.9791
51028	E08	56140	440503	PLIN5	-0.0092	0.9791
11073	C08	4276	318	NUDT2	-0.0092	0.9791
11037	F07	3152	3065	HDAC1	-0.0091	0.9792
11063	C11	10127	11322	TMC6	-0.0091	0.9792
51006	H05	54751	137209	ZNF572	-0.0091	0.9792
31006	D09	10969	79883	PODNL1	-0.0091	0.9792
11032	F09	9975	2246	FGF1	-0.0091	0.9792
31025	E03	13442	23595	ORC3L	-0.0091	0.9793
31015	C12	12787	64231	MS4A6A	-0.0091	0.9793
11003	F08	2345	147719	LYPD4	-0.0091	0.9794
11025	A11	1910	84229	CCDC135	-0.0090	0.9794
11055	G03	2272	9901	SRGAP3	-0.0090	0.9794
11017	A05	5902	51504	TRMT112	-0.0090	0.9794
51015	E02	53005	150864	FAM117B	-0.0090	0.9795
11065	H06	9789	7266	DNAJC7	-0.0090	0.9795
11081	G09	3094	2791	GNG11	-0.0090	0.9795
11012	E03	6447	55006	TRMT61B	-0.0090	0.9795
31024	F10	13721	63978	PRDM14	-0.0090	0.9795
11009	C10	4930	8788	DLK1	-0.0090	0.9795
11072	H10	6823	440275	EIF2AK4	-0.0090	0.9795
11013	D08	4475	11083	DIDO1	-0.0090	0.9796
31039	F06	2772	60370	AVPI1	-0.0090	0.9796
31019	C10	13173	51382	ATP6V1D	-0.0089	0.9796
11001	F12	135	282991	BLOC1S2	-0.0089	0.9797
51005	F10	54828	378465	HSN2	-0.0089	0.9797
31040	F02	2202	57717	PCDHB16	-0.0089	0.9797
51023	E08	55893	5291	PIK3CB	-0.0089	0.9797
31044	E12	2735	306	ANXA3	-0.0089	0.9798
11077	H04	820	10513	APPBP2	-0.0088	0.9799
31024	D03	13784	144501	KRT80	-0.0088	0.9799
11004	B07	8761	728294	D2HGDH	-0.0088	0.9799

51011	F12	52872	160728	SLC5A8	-0.0088	0.9799
31036	G01	11269	84696	ABHD1	-0.0088	0.9799
31007	B03	11061	89944	GLB1L2	-0.0088	0.9799
31004	E03	10765	80216	ALPK1	-0.0088	0.9799
51032	G02	55460	2323	FLT3LG	-0.0088	0.9800
31027	G11	14260	164091	PAQR7	-0.0088	0.9800
11076	H04	4730	6518	SLC2A5	-0.0087	0.9801
31008	E11	11461	23673	STX12	-0.0087	0.9801
11080	H10	7674	6499	SKIV2L	-0.0087	0.9801
11003	G11	339	5868	RAB5A	-0.0087	0.9802
11078	A11	1449	10600	USP16	-0.0087	0.9802
11053	A04	2725	26984	SEC22A	-0.0087	0.9802
51003	E05	54196	22921	MSRB2	-0.0087	0.9802
11074	B06	3804	80776	B9D2	-0.0087	0.9802
11050	A05	9074	23450	SF3B3	-0.0087	0.9802
11078	D12	1701	256309	CCDC110	-0.0086	0.9803
11018	H02	9051	55789	DEPDC1B	-0.0086	0.9803
11015	F09	7107	285381	DPH3	-0.0086	0.9804
11081	D06	9670	4501	MT1X	-0.0086	0.9804
51005	G03	54990	283212	KLHL35	-0.0086	0.9804
31019	G10	13168	83661	MS4A8B	-0.0086	0.9804
31014	C01	12056	57185	NIPAL3	-0.0086	0.9805
51011	E05	52842	155038	GIMAP8	-0.0086	0.9805
51018	C06	55986	5645	PRSS2	-0.0086	0.9805
11001	A04	8745	2625	GATA3	-0.0085	0.9805
31045	B03	752	6117	RPA1	-0.0085	0.9806
51034	D04	53823	23254	KAZ	-0.0085	0.9806
11057	F07	9423	1101	CHAD	-0.0085	0.9806
31024	B02	13760	25966	C2CD2	-0.0085	0.9807
31040	E03	2914	6601	SMARCC2	-0.0085	0.9807
11026	B04	8358	6367	CCL22	-0.0085	0.9807
11004	F09	2843	10434	LYPLA1	-0.0085	0.9807
11030	C09	7452	51181	DCXR	-0.0085	0.9807
11067	F03	7894	10818	FRS2	-0.0085	0.9807
11020	G05	5181	7167	TPI1	-0.0084	0.9808
11043	H03	4508	4716	NDUFB10	-0.0084	0.9808
31008	A03	11800	5879	RAC1	-0.0084	0.9808
11015	A10	8991	84333	PCGF5	-0.0084	0.9808
11018	F01	6063	261726	TIPRL	-0.0084	0.9809
31024	D06	13325	2638	GC	-0.0084	0.9809
11040	D05	1014	10879	SMR3B	-0.0084	0.9809
51006	F10	56639	57645	POGK	-0.0084	0.9809
11082	D09	8691	64924	SLC30A5	-0.0084	0.9809
31039	D02	9325	10505	SEMA4F	-0.0084	0.9809

11056	B11	3003	23310	NCAPD3	-0.0084	0.9809
51030	G08	56418	155060	ZNF783	-0.0083	0.9810
51024	F02	56066	5858	PZP	-0.0083	0.9810
31043	E07	6496	55422	ZNF331	-0.0083	0.9810
11081	D11	7962	2281	FKBP1B	-0.0083	0.9810
11039	D08	6311	9984	THOC1	-0.0083	0.9810
51012	C10	53703	127544	RNF19B	-0.0083	0.9810
51003	B03	52843	347736	TXNDC6	-0.0083	0.9811
11086	E08	4656	6502	SKP2	-0.0083	0.9811
11015	E02	5662	59286	UBL5	-0.0083	0.9812
11016	E02	7422	56892	C8orf4	-0.0083	0.9812
31028	C09	14168	25956	SEC31B	-0.0082	0.9812
51011	D09	53615	3752	KCND3	-0.0082	0.9813
11005	A04	2600	55332	DRAM1	-0.0082	0.9813
31016	F03	12734	26232	FBXO2	-0.0082	0.9813
31012	A07	12047	79663	HSPBAP1	-0.0082	0.9813
51023	C09	56329	121256	TMEM132D	-0.0082	0.9814
11082	E12	763	1528	CYB5A	-0.0082	0.9814
11086	E02	7435	51629	SLC25A39	-0.0082	0.9814
11044	E12	6326	7135	TNNI1	-0.0081	0.9814
11035	C05	9892	5025	P2RX4	-0.0081	0.9815
51001	B11	54269	152078	C3orf55	-0.0081	0.9815
51032	E10	56943	400746	C1orf130	-0.0081	0.9815
11048	C10	8656	130940	CCDC148	-0.0081	0.9816
11054	D07	7002	91663	MYADM	-0.0081	0.9816
31035	F02	15000	55770	EXOC2	-0.0081	0.9816
11017	F06	8601	8848	TSC22D1	-0.0081	0.9816
11001	D07	2962	122616	C14orf79	-0.0080	0.9816
11043	C09	4384	4149	MAX	-0.0080	0.9817
11087	D01	8144	375748	C9orf102	-0.0080	0.9817
11051	H02	5013	23475	QPRT	-0.0080	0.9817
51031	F03	55356	339047	LOC339047	-0.0080	0.9818
51001	H08	52747	100130934	ZNF663	-0.0080	0.9818
31007	D04	11279	116113	FOXP4	-0.0080	0.9818
51011	A03	52796	4603	MYBL1	-0.0080	0.9818
11046	G02	6290	9027	NAT8	-0.0080	0.9818
31016	D07	12739	2773	GNAI3	-0.0080	0.9818
11059	E09	7167	23746	AIPL1	-0.0080	0.9819
11016	D06	7533	8294	HIST1H4I	-0.0079	0.9819
11068	C04	6454	3073	HEXA	-0.0079	0.9819
31042	D02	6511	93082	NEURL3	-0.0079	0.9820
11059	E02	444	1238	CCBP2	-0.0079	0.9820
31032	E05	14497	55760	DHX32	-0.0079	0.9821
11082	F06	7039	51728	POLR3K	-0.0079	0.9821

11036	E09	9440	28988	DBNL	-0.0078	0.9821
51030	F10	55312	5306	PITPNA	-0.0078	0.9821
31040	C06	9953	2123	EVI2A	-0.0078	0.9822
11087	C08	3001	9061	PAPSS1	-0.0078	0.9822
31016	A05	12592	10212	DDX39	-0.0078	0.9822
11049	D09	191	6591	SNAI2	-0.0078	0.9822
11006	B07	9272	81629	TSSK3	-0.0078	0.9822
11004	E03	1785	57185	NIPAL3	-0.0078	0.9823
11025	C12	2536	6525	SMTN	-0.0077	0.9823
11009	B01	6701	70	ACTC1	-0.0077	0.9823
11015	F10	7534	6726	SRP9	-0.0077	0.9824
11061	A01	4816	5164	PDK2	-0.0077	0.9824
11008	C09	5010	51548	SIRT6	-0.0077	0.9825
11014	A02	5836	27229	TUBGCP4	-0.0076	0.9825
11069	C06	7154	6584	SLC22A5	-0.0076	0.9826
11077	H06	2423	6184	RPN1	-0.0076	0.9826
11066	E03	6292	53371	NUP54	-0.0076	0.9827
11062	B09	1479	11057	ABHD2	-0.0076	0.9827
11012	D06	6252	4731	NDUFV3	-0.0075	0.9828
51002	C03	52592	123264	OSTBETA	-0.0075	0.9828
11053	G10	3389	231	AKR1B1	-0.0075	0.9828
31021	B11	12982	55602	CDKN2AIP	-0.0075	0.9829
11074	F08	1653	377	ARF3	-0.0075	0.9829
11010	C11	6736	9775	EIF4A3	-0.0075	0.9829
51011	H08	52919	374879	ZNF699	-0.0075	0.9829
31019	G01	13164	54622	ARL15	-0.0075	0.9829
11045	E08	1057	29063	ZCCHC4	-0.0074	0.9830
11054	E09	5888	5524	PPP2R4	-0.0074	0.9830
11063	G09	2430	3611	ILK	-0.0074	0.9830
31012	G10	11931	9582	APOBEC3B	-0.0074	0.9831
11011	D08	2906	30008	EFEMP2	-0.0074	0.9831
51035	A07	53589	7201	TRHR	-0.0074	0.9831
31045	H03	7044	10607	TBL3	-0.0074	0.9831
51024	E03	55211	3895	KTN1	-0.0074	0.9831
51032	A11	53138	9491	PSMF1	-0.0074	0.9831
51001	H04	52623	4738	NEDD8	-0.0074	0.9831
51033	G05	54947	404552	SCGB1D4	-0.0074	0.9831
51027	E02	56686	9183	ZW10	-0.0074	0.9832
31007	E01	11040	8139	GAN	-0.0074	0.9832
11007	C08	6474	55658	RNF126	-0.0073	0.9832
11015	C04	5459	29796	UQCR10	-0.0073	0.9833
11054	A05	5178	1937	EEF1G	-0.0073	0.9833
11032	C11	7816	143686	SESN3	-0.0073	0.9833
11046	C02	9079	5156	PDGFRA	-0.0073	0.9833

11042	E05	2248	8674	VAMP4	-0.0073	0.9833
51004	F06	53747	29082	CHMP4A	-0.0073	0.9833
11041	D05	5049	91368	CDKN2AIPNL	-0.0073	0.9833
31036	B10	12344	51056	LAP3	-0.0073	0.9834
11021	E09	5731	51184	GPN3	-0.0073	0.9834
11006	E10	2105	10557	RPP38	-0.0073	0.9834
11074	H02	3933	1032	CDKN2D	-0.0073	0.9834
11046	D12	9426	414157	C10orf62	-0.0072	0.9835
31043	B03	5273	79672	FN3KRP	-0.0072	0.9835
51029	F01	55668	286207	C9orf117	-0.0072	0.9835
11074	F04	3802	10440	TIMM17A	-0.0072	0.9835
51006	F05	53358	5427	POLE2	-0.0072	0.9836
31028	B04	14177	6489	ST8SIA1	-0.0072	0.9836
11017	C07	9040	25901	CCDC28A	-0.0072	0.9836
11077	F01	1247	8720	MBTPS1	-0.0072	0.9836
31019	D01	13304	51626	DYNC2LI1	-0.0072	0.9836
11026	C11	3973	26071	FAM127B	-0.0072	0.9837
51024	G10	55147	7158	TP53BP1	-0.0071	0.9837
11051	F07	906	27249	MMADHC	-0.0071	0.9838
11087	E07	2367	782	CACNB1	-0.0071	0.9838
11057	H06	779	7004	TEAD4	-0.0071	0.9838
31044	A01	8985	84331	FAM195A	-0.0071	0.9838
11067	E08	8219	84878	ZBTB45	-0.0071	0.9839
51015	F10	52837	140902	R3HDML	-0.0070	0.9839
11086	G06	5068	5452	POU2F2	-0.0070	0.9839
51028	E07	55516	116328	C8orf34	-0.0070	0.9840
11048	E11	719	25972	UNC50	-0.0070	0.9840
31016	E09	12692	55217	TMLHE	-0.0070	0.9840
51006	C02	53592	8233	ZRSR2	-0.0070	0.9840
31020	E09	12846	9184	BUB3	-0.0070	0.9841
51005	D08	53814	148362	C1orf58	-0.0070	0.9841
11066	C07	10034	84102	SLC41A2	-0.0069	0.9842
11074	B04	4117	7326	UBE2G1	-0.0069	0.9842
31040	H06	10204	11123	RCAN3	-0.0069	0.9842
11064	C05	4931	1128	CHRM1	-0.0069	0.9842
11037	F03	3136	9885	OSBPL2	-0.0069	0.9843
11008	D09	3148	8665	EIF3F	-0.0068	0.9844
11051	G07	8795	2175	FANCA	-0.0068	0.9844
11081	B10	4341	10974	C10orf116	-0.0068	0.9844
11045	F10	3079	11009	IL24	-0.0068	0.9844
11041	G10	4306	80774	LIMD2	-0.0068	0.9844
11061	C11	5953	1509	CTSD	-0.0068	0.9844
11032	H02	4143	10417	SPON2	-0.0068	0.9845
11048	A01	9447	284427	SLC25A41	-0.0068	0.9845

31023	D05	13703	167826	OLIG3	-0.0068	0.9845
11034	G01	3359	50814	NSDHL	-0.0068	0.9845
51011	F01	53066	7691	ZNF132	-0.0068	0.9846
11056	F05	1888	23034	SAMD4A	-0.0068	0.9846
51006	C05	53855	115004	C6orf150	-0.0067	0.9846
11070	B03	8290	10990	LILRB5	-0.0067	0.9846
51006	D04	54589	4067	LYN	-0.0067	0.9846
51010	G08	54901	123722	FSD2	-0.0067	0.9847
51034	B11	55110	129450	C2orf60	-0.0067	0.9847
11049	B04	920	6880	TAF9	-0.0067	0.9847
31041	C03	3137	9761	MLEC	-0.0067	0.9847
11079	C10	7715	55112	WDR60	-0.0067	0.9847
31008	C12	11404	79660	PPP1R3B	-0.0067	0.9847
11047	H10	5055	81932	HDHD3	-0.0067	0.9848
11017	D12	7034	6158	RPL28	-0.0067	0.9848
11049	H08	381	54472	TOLLIP	-0.0067	0.9848
11042	E07	8297	3050	HBZ	-0.0066	0.9848
11022	E05	7687	5267	SERPINA4	-0.0066	0.9848
51020	G09	56031	343070	PRAMEF9	-0.0066	0.9849
51034	F06	55078	401260	FLJ41649	-0.0066	0.9850
11078	H08	7031	6890	TAP1	-0.0066	0.9850
11021	G04	7032	65992	DDRGK1	-0.0066	0.9850
51021	D03	56412	60626	RIC8A	-0.0066	0.9850
31039	G07	1787	1176	AP3S1	-0.0066	0.9850
11004	D01	8386	83888	FGFBP2	-0.0066	0.9850
11024	F10	9728	91949	COG7	-0.0065	0.9851
31007	G09	11692	144203	OVOS2	-0.0065	0.9851
11055	G02	9650	55644	OSGEP	-0.0065	0.9851
51021	H04	55828	9340	GLP2R	-0.0065	0.9852
11009	C02	3978	2237	FEN1	-0.0065	0.9852
11037	F10	5038	1136	CHRNA3	-0.0065	0.9852
11064	E02	2154	8001	GLRA3	-0.0065	0.9852
11045	B02	9024	57142	RTN4	-0.0064	0.9853
51021	C01	55819	93	ACVR2B	-0.0064	0.9854
51002	C06	54502	441208	LOC441208	-0.0064	0.9854
51003	A06	54462	6019	RLN2	-0.0064	0.9854
11064	F02	7887	29886	SNX8	-0.0064	0.9855
31012	B07	12041	5723	PSPH	-0.0063	0.9855
31034	B01	14932	3458	IFNG	-0.0063	0.9855
11017	B05	7090	6623	SNCG	-0.0063	0.9856
11006	E03	8165	3038	HAS3	-0.0063	0.9856
31020	E04	13296	389434	IYD	-0.0063	0.9856
51008	D02	54551	55236	UBA6	-0.0063	0.9857
11085	F06	3225	8614	STC2	-0.0063	0.9857

11058	F08	5278	84517	ARPM1	-0.0063	0.9857
51004	E10	55682	1265	CNN2	-0.0062	0.9858
11049	F11	6184	113622	ADPRHL1	-0.0062	0.9858
11086	B04	8587	57805	KIAA1967	-0.0062	0.9858
11055	F09	5918	1762	DMWD	-0.0062	0.9858
11006	A03	2556	3109	HLA-DMB	-0.0062	0.9859
51028	C12	55407	100132565	GOLGA8F	-0.0062	0.9859
51005	B09	53413	989	SEPT7	-0.0062	0.9859
11069	B04	10201	25975	EGFL6	-0.0062	0.9859
11025	C02	10126	26009	ZZZ3	-0.0062	0.9859
11082	A11	9498	5473	PPBP	-0.0061	0.9859
11054	B07	5951	5831	PYCR1	-0.0061	0.9859
11016	D08	9166	80339	PNPLA3	-0.0061	0.9860
11068	C03	10146	57474	ZNF490	-0.0061	0.9860
11015	A03	4603	79098	C1orf116	-0.0061	0.9861
11059	G07	8375	8846	ALKBH1	-0.0061	0.9862
11084	E10	3535	2010	EMD	-0.0060	0.9862
51035	E08	53324	53944	CSNK1G1	-0.0060	0.9862
31007	E04	11296	57533	TBC1D14	-0.0060	0.9862
11027	B01	936	29107	NXT1	-0.0060	0.9862
11012	C05	8108	55357	TBC1D2	-0.0060	0.9862
31042	B09	6962	59342	SCPEP1	-0.0060	0.9863
11071	G05	336	55699	IARS2	-0.0060	0.9863
51005	A05	53947	387332	TBPL2	-0.0060	0.9863
11004	G10	2748	7727	ZNF174	-0.0060	0.9863
11024	H04	9465	9725	TMEM63A	-0.0060	0.9863
51028	G08	56193	54453	RIN2	-0.0060	0.9863
11061	F10	2927	7108	TM7SF2	-0.0060	0.9863
31040	D04	9699	55216	C11orf57	-0.0060	0.9863
11004	F11	8639	10616	RBCK1	-0.0060	0.9864
11010	H10	5393	10587	TXNRD2	-0.0059	0.9864
11089	E02	2094	7189	TRAF6	-0.0059	0.9864
31006	D07	11066	23373	CRTC1	-0.0059	0.9864
51028	C04	55310	949	SCARB1	-0.0059	0.9864
31003	A04	10517	196513	DCP1B	-0.0059	0.9864
51020	D11	56334	84986	ARHGAP19	-0.0059	0.9865
11075	A12	5210	3669	ISG20	-0.0059	0.9865
31042	B03	6351	55168	MRPS18A	-0.0059	0.9865
11078	H05	5875	3030	HADHA	-0.0059	0.9866
31007	H06	11187	152185	CCDC52	-0.0059	0.9866
51025	C04	55705	607	BCL9	-0.0058	0.9866
51020	H09	56038	255403	ZNF718	-0.0058	0.9867
51026	B10	53393	9581	PREPL	-0.0058	0.9867
51003	C05	52661	917	CD3G	-0.0058	0.9867

51003	B05	52746	7499	XG	-0.0058	0.9867
31008	F02	11527	130560	SPATA3	-0.0058	0.9867
11001	F06	9392	643406	LOC643406	-0.0058	0.9867
31011	G02	11661	5871	MAP4K2	-0.0058	0.9868
11017	B11	6934	24146	CLDN15	-0.0058	0.9868
11013	D03	6655	56926	NCLN	-0.0057	0.9869
31008	C01	11399	170685	NUDT10	-0.0057	0.9869
31026	C01	14078	1473	CST5	-0.0057	0.9869
11016	G06	6704	23710	GABARAPL1	-0.0057	0.9870
31038	B09	5857	54478	FAM64A	-0.0057	0.9870
11008	A02	366	10055	SAE1	-0.0057	0.9870
11037	B01	5375	10381	TUBB3	-0.0057	0.9871
11037	E12	3803	3359	HTR3A	-0.0056	0.9871
51025	D10	56914	6900	CNTN2	-0.0056	0.9871
11030	E11	3716	55374	TMCO6	-0.0056	0.9872
11052	H03	4728	10921	RNPS1	-0.0056	0.9872
51003	G03	52643	339168	TMEM95	-0.0056	0.9872
11015	B05	9008	8821	INPP4B	-0.0056	0.9872
51002	D07	52960	378832	NCRNA00175	-0.0056	0.9872
51031	G10	56538	23252	OTUD3	-0.0056	0.9873
51002	G03	52580	80069	C6orf208	-0.0056	0.9873
51030	F12	56498	5644	PRSS1	-0.0055	0.9873
51006	A10	53452	5745	PTH1R	-0.0055	0.9874
11055	B10	243	64087	MCCC2	-0.0055	0.9874
31027	F05	13931	1576	CYP3A4	-0.0055	0.9874
11047	C08	8732	22889	KIAA0907	-0.0055	0.9874
11004	E07	8227	255043	TMEM86B	-0.0055	0.9874
31007	F05	10944	55159	RFWD3	-0.0055	0.9875
51011	C10	55081	58538	MPP4	-0.0055	0.9875
31040	F10	2459	63922	CHTF18	-0.0055	0.9875
11078	H10	1343	2059	EPS8	-0.0054	0.9876
51001	D02	52589	337974	KRTAP19-7	-0.0054	0.9877
11066	F05	6724	113730	KLHDC7B	-0.0053	0.9878
31005	F07	11292	84935	C13orf33	-0.0053	0.9878
11047	E10	841	64108	RTP4	-0.0053	0.9878
11035	C10	3162	3608	ILF2	-0.0053	0.9878
11082	A08	3961	4282	MIF	-0.0053	0.9878
31040	E10	2581	200424	TET3	-0.0053	0.9878
31024	F07	13686	219855	SLC37A2	-0.0053	0.9878
51002	F06	52809	148930	KNCN	-0.0053	0.9878
11002	B07	9235	26748	GAGE12I	-0.0053	0.9879
51011	F06	54871	9108	MTMR7	-0.0053	0.9880
11043	A02	6402	29103	DNAJC15	-0.0052	0.9880
31040	G02	1905	64147	KIF9	-0.0052	0.9880

31013	E12	11917	9209	LRRFIP2	-0.0052	0.9881
11046	G04	1033	79879	CCDC134	-0.0052	0.9881
11076	B02	5237	1327	COX4I1	-0.0052	0.9882
11077	H08	4353	9685	CLINT1	-0.0052	0.9882
11049	D08	91	10098	TSPAN5	-0.0051	0.9882
31024	B07	13555	55240	STEAP3	-0.0051	0.9882
11044	A05	2742	29057	FAM156A	-0.0051	0.9882
51013	C07	52971	55633	TBC1D22B	-0.0051	0.9883
51025	C11	56286	161497	STRC	-0.0051	0.9883
11060	C10	5759	3646	EIF3E	-0.0051	0.9883
31033	B07	14889	387036	GUSBL1	-0.0051	0.9884
31039	C09	1171	27289	RND1	-0.0051	0.9884
11019	A02	3594	9145	SYNGR1	-0.0051	0.9884
11061	G06	2751	64425	POLR1E	-0.0051	0.9884
11007	A03	8043	84524	ZC3H8	-0.0051	0.9884
11071	B10	9998	4599	MX1	-0.0050	0.9885
11037	D10	6435	29106	SCG3	-0.0050	0.9885
31032	D09	14787	79839	CCDC102B	-0.0050	0.9886
51027	A08	55428	81608	FIP1L1	-0.0050	0.9886
11039	A08	6820	7086	TKT	-0.0050	0.9886
11046	E06	4320	55906	ZC4H2	-0.0050	0.9886
11059	C09	2730	1604	CD55	-0.0050	0.9886
51023	B04	56692	9958	USP15	-0.0050	0.9886
11015	F02	5713	140823	ROMO1	-0.0049	0.9887
11035	A01	6521	51112	TTC15	-0.0049	0.9888
11063	E03	5145	51540	SCLY	-0.0049	0.9888
31001	A05	10539	92675	DTD1	-0.0049	0.9888
51028	C11	56798	146760	RTN4RL1	-0.0049	0.9888
51030	D08	53210	440321	FLJ32679	-0.0049	0.9889
11082	G03	3228	83658	DYNLRB1	-0.0048	0.9890
11052	A01	1986	4969	OGN	-0.0048	0.9890
11025	H04	9532	5933	RBL1	-0.0048	0.9890
31006	H07	11317	9295	SRSF11	-0.0048	0.9890
11013	E01	4079	3329	HSPD1	-0.0048	0.9890
11078	G02	6203	51361	HOOK1	-0.0048	0.9890
51014	B11	52812	80320	SP6	-0.0048	0.9890
11007	D06	8245	145226	RDH12	-0.0048	0.9890
11051	D09	1063	6607	SMN2	-0.0048	0.9891
31021	E03	12885	845	CASQ2	-0.0048	0.9891
51027	C04	56818	163351	GBP6	-0.0048	0.9891
11016	F06	5559	10289	EIF1B	-0.0048	0.9891
51013	B12	52764	153201	SLC36A2	-0.0048	0.9891
11020	F04	3633	51637	C14orf166	-0.0048	0.9891
11066	D11	9651	284004	HEXDC	-0.0047	0.9891

51031	H01	53205	399665	FAM102A	-0.0047	0.9892
11048	H07	180	23548	TTC33	-0.0047	0.9892
51002	F11	56735	254956	MORN5	-0.0047	0.9893
11005	H07	2001	202134	FAM153B	-0.0047	0.9893
31010	B11	11674	55614	KIF16B	-0.0047	0.9893
51012	C02	53105	144132	DNHD1	-0.0047	0.9893
11003	A05	5654	5967	REG1A	-0.0047	0.9893
11015	B10	8998	51095	TRNT1	-0.0047	0.9893
31029	G01	14188	8334	HIST1H2AC	-0.0046	0.9894
31039	G06	2764	6742	SSBP1	-0.0046	0.9894
11018	E02	6884	10245	TIMM17B	-0.0046	0.9894
11007	A04	8207	293	SLC25A6	-0.0046	0.9895
11051	E09	927	6817	SULT1A1	-0.0046	0.9895
51029	G08	56786	51733	UPB1	-0.0046	0.9895
11039	A12	1925	399694	SHC4	-0.0046	0.9896
11053	D03	360	23172	FAM175B	-0.0046	0.9896
51029	B09	53279	80714	PBX4	-0.0045	0.9896
11002	C04	9783	563	AZGP1	-0.0045	0.9896
11035	B03	6365	528	ATP6V1C1	-0.0045	0.9896
51003	G07	56711	386682	KRTAP10-3	-0.0045	0.9896
31044	E02	4823	55897	MESP1	-0.0045	0.9896
11021	A01	5742	2205	FCER1A	-0.0045	0.9896
51005	G01	54745	6555	SLC10A2	-0.0045	0.9896
11078	F01	2179	9915	ARNT2	-0.0045	0.9897
11076	B05	3930	7024	TFCP2	-0.0045	0.9897
11067	F02	8222	1543	CYP1A1	-0.0045	0.9897
51032	G05	56474	282969	C10orf125	-0.0045	0.9898
51020	C09	56176	65056	GPBP1	-0.0045	0.9898
31043	H03	7817	55311	ZNF444	-0.0044	0.9898
51033	F02	55467	165679	C3orf57	-0.0044	0.9899
11057	F10	7252	407	ARR3	-0.0044	0.9899
31039	B01	6509	83858	ATAD3B	-0.0044	0.9900
31007	F04	11297	8626	TP63	-0.0044	0.9900
11058	E07	8502	79442	LRRC2	-0.0043	0.9901
11069	B12	2490	2239	GPC4	-0.0043	0.9901
11025	C10	2420	8663	EIF3C	-0.0043	0.9901
11022	F08	7853	91782	CHMP7	-0.0043	0.9902
31041	A07	7316	115950	ZNF653	-0.0043	0.9902
11081	C11	6528	259262	SUGT1P	-0.0043	0.9902
11078	F02	6173	10664	CTCF	-0.0043	0.9902
31039	H04	2871	2653	GCSH	-0.0043	0.9902
11058	G05	4503	51438	MAGEC2	-0.0042	0.9903
11088	G01	9925	58157	NGB	-0.0042	0.9904
51029	F02	55423	4645	MYO5B	-0.0042	0.9904

11028	C12	8750	9265	CYTH3	-0.0042	0.9905
51014	G11	52945	8536	CAMK1	-0.0042	0.9905
11054	F07	162	54802	TRIT1	-0.0042	0.9905
11068	G07	6535	92906	HNRPLL	-0.0041	0.9906
11024	C09	4262	3326	HSP90AB1	-0.0041	0.9906
11008	D01	2821	5635	PRPSAP1	-0.0041	0.9906
31043	C07	7682	1039	CDR2	-0.0041	0.9906
51003	G05	52646	7379	UPK2	-0.0041	0.9907
11073	C06	8899	11100	HNRNPUL1	-0.0040	0.9908
11073	A06	4140	28971	C11orf67	-0.0040	0.9908
51026	C04	53259	84905	ZNF341	-0.0040	0.9909
31043	D08	7868	84668	FAM126A	-0.0040	0.9909
31018	G02	12839	3015	H2AFZ	-0.0040	0.9909
51001	C03	52568	25774	GSTTP1	-0.0040	0.9909
11053	G05	5924	813	CALU	-0.0040	0.9909
51032	F10	55367	2681	GGTA1	-0.0039	0.9910
31041	B03	7807	30012	TLX3	-0.0039	0.9911
51030	E08	56942	23359	FAM189A1	-0.0039	0.9911
11060	B07	3854	5036	PA2G4	-0.0039	0.9911
11035	C04	6380	51375	SNX7	-0.0039	0.9912
11044	A09	8979	85007	AGXT2L2	-0.0038	0.9912
31038	B06	14409	65979	PHACTR4	-0.0038	0.9912
51023	A03	56197	54627	KIAA1383	-0.0038	0.9912
31036	F02	10642	54505	DHX29	-0.0038	0.9913
51023	H07	56206	54726	OTUD4	-0.0038	0.9913
11006	E05	8029	114049	WBSCR22	-0.0038	0.9913
31038	H02	14686	26061	HACL1	-0.0038	0.9913
11066	C04	9717	80308	FLAD1	-0.0038	0.9914
31006	G03	10879	3344	FOXN2	-0.0037	0.9914
11029	H06	665	5716	PSMD10	-0.0037	0.9914
31007	H05	10868	84456	L3MBTL3	-0.0037	0.9914
11062	E02	1286	23208	SYT11	-0.0037	0.9914
11037	H11	9545	54946	SLC41A3	-0.0037	0.9915
11012	B01	4544	10856	RUVBL2	-0.0037	0.9915
11020	F03	7640	962	CD48	-0.0037	0.9916
11080	E11	5228	5336	PLCG2	-0.0037	0.9916
51022	F05	56665	79400	NOX5	-0.0037	0.9916
31040	D10	10152	222484	LNX2	-0.0037	0.9916
11025	F03	9988	8615	USO1	-0.0037	0.9916
51027	H11	1545	163050	ZNF564	-0.0036	0.9917
11024	H11	5104	5211	PFKL	-0.0036	0.9917
11048	H06	151	10927	SPIN1	-0.0036	0.9917
11050	A03	4218	79696	FAM164C	-0.0036	0.9917
31017	B05	12907	23767	FLRT3	-0.0036	0.9917

11006	D12	9309	51267	CLEC1A	-0.0036	0.9918
11017	B09	6375	63931	MRPS14	-0.0036	0.9918
11041	A01	874	130340	AP1S3	-0.0036	0.9918
31033	C07	14955	3206	HOXA10	-0.0035	0.9920
11016	G08	3817	1978	EIF4EBP1	-0.0035	0.9920
11002	E10	9943	1139	CHRNA7	-0.0035	0.9920
11088	C06	10017	10193	RNF41	-0.0035	0.9920
11035	G01	2227	7050	TGIF1	-0.0035	0.9920
11029	A02	1843	1027	CDKN1B	-0.0035	0.9920
51003	C01	52604	123904	NRN1L	-0.0034	0.9921
11014	H10	2706	9670	IPO13	-0.0034	0.9921
11009	F04	258	51631	LUC7L2	-0.0034	0.9922
11030	D03	6768	7529	YWHAB	-0.0034	0.9922
11076	B01	5422	382	ARF6	-0.0034	0.9923
31022	H01	13333	64663	SPANXC	-0.0034	0.9923
31042	H09	5761	3183	HNRNPC	-0.0034	0.9923
11055	A03	8119	27092	CACNG4	-0.0034	0.9923
11005	H06	4075	3029	HAGH	-0.0034	0.9923
11087	F02	9823	1363	CPE	-0.0033	0.9923
11054	C08	3975	3178	HNRNPA1	-0.0033	0.9923
51023	H06	55889	3416	IDE	-0.0033	0.9924
11067	C06	2065	734	OSGIN2	-0.0033	0.9924
11052	D05	4038	10450	PPIE	-0.0033	0.9924
11035	G05	6777	79142	PHF23	-0.0033	0.9924
11020	C03	7273	27040	LAT	-0.0033	0.9925
11051	G11	4175	931	MS4A1	-0.0033	0.9925
11084	E11	645	8799	PEX11B	-0.0033	0.9925
11018	H01	7165	29104	N6AMT1	-0.0033	0.9925
51022	A05	55884	6564	SLC15A1	-0.0033	0.9925
31005	H09	10842	9586	CREB5	-0.0032	0.9925
31003	E08	10362	9886	RHOBTB1	-0.0032	0.9926
11009	A10	4963	10120	ACTR1B	-0.0032	0.9926
11074	A05	3875	103910	MYL12B	-0.0032	0.9926
11050	E11	5442	6495	SIX1	-0.0032	0.9926
31025	C06	13329	57020	C16orf62	-0.0032	0.9927
11086	H01	57	10067	SCAMP3	-0.0031	0.9928
11036	D12	3586	1643	DDB2	-0.0031	0.9928
31042	F09	5833	56912	IFT46	-0.0031	0.9928
11085	H07	123	64114	TMBIM1	-0.0031	0.9929
11018	E10	7778	202865	C7orf33	-0.0031	0.9930
31044	C06	3542	6510	SLC1A5	-0.0031	0.9930
31014	H07	12318	79065	ATG9A	-0.0030	0.9930
51032	B11	55458	389541	C7orf59	-0.0030	0.9931
31043	F01	5871	3032	HADHB	-0.0030	0.9931

31032	C01	14627	59342	SCPEP1	-0.0030	0.9931
31032	F04	14498	114990	VASN	-0.0030	0.9931
11064	C11	9939	2516	NR5A1	-0.0030	0.9931
11020	G03	3291	2963	GTF2F2	-0.0030	0.9931
11058	C09	10048	374354	NHLRC2	-0.0030	0.9931
51011	H02	52983	7053	TGM3	-0.0029	0.9932
11079	A12	4470	47	ACLY	-0.0029	0.9933
51029	E11	55362	53836	GPR87	-0.0029	0.9933
51027	B07	53387	54800	KLHL24	-0.0029	0.9933
31028	E05	14150	11160	ERLIN2	-0.0029	0.9933
11054	A04	5176	4157	MC1R	-0.0029	0.9933
31041	H01	7618	64897	C12orf43	-0.0029	0.9933
31013	B04	11864	8576	STK16	-0.0029	0.9933
11079	E06	2960	5775	PTPN4	-0.0029	0.9934
11072	F03	2544	22893	BAHD1	-0.0029	0.9934
11048	A04	1170	11248	NXPH3	-0.0029	0.9934
31010	E03	11709	10043	TOM1	-0.0028	0.9935
51024	E06	56335	10499	NCOA2	-0.0028	0.9935
11029	C01	42	5861	RAB1A	-0.0028	0.9935
11043	D10	5119	84984	C3orf34	-0.0028	0.9936
31022	F03	13764	219855	SLC37A2	-0.0028	0.9936
11045	E11	297	22931	RAB18	-0.0028	0.9937
11009	H03	7189	26580	BSCL2	-0.0028	0.9937
11078	A03	1393	29110	TBK1	-0.0027	0.9938
11068	E08	6798	22823	MTF2	-0.0027	0.9938
11001	G09	10178	27296	TP53TG5	-0.0027	0.9938
11068	C11	7254	84879	MFSD2A	-0.0027	0.9938
31001	G04	10579	219621	C10orf107	-0.0027	0.9938
11036	F09	7961	5701	PSMC2	-0.0027	0.9939
11062	F10	7896	84872	ZC3H10	-0.0027	0.9939
11037	C01	6731	90204	ZSWIM1	-0.0026	0.9939
11037	G02	3411	7067	THRA	-0.0026	0.9940
11055	E08	5217	10826	C5orf4	-0.0026	0.9940
11024	F02	4970	9091	PIGQ	-0.0026	0.9940
11004	D05	2959	7570	ZNF22	-0.0026	0.9940
11075	F04	4422	1827	RCAN1	-0.0026	0.9940
11018	C10	7629	4818	NKG7	-0.0026	0.9941
31017	H04	13266	213	ALB	-0.0026	0.9941
11040	E06	5182	80154	LOC80154	-0.0026	0.9941
11049	E08	6021	84934	C12orf52	-0.0026	0.9941
51026	G02	56855	57616	TSHZ3	-0.0025	0.9942
31040	A05	10063	132321	C4orf33	-0.0025	0.9942
31007	C02	11172	125950	RAVER1	-0.0025	0.9942
11005	C11	2685	25840	METTL7A	-0.0025	0.9942

11068	C06	1571	10693	CCT6B	-0.0025	0.9943
51023	F02	56685	4547	MTPP	-0.0025	0.9943
11035	G09	1261	5305	PIP4K2A	-0.0025	0.9944
31032	F11	14758	256281	NUDT14	-0.0025	0.9944
51013	H02	54028	81789	TIGD6	-0.0024	0.9944
11088	C08	2968	54776	PPP1R12C	-0.0024	0.9944
51012	A11	53012	5058	PAK1	-0.0024	0.9945
11039	A01	5207	28976	ACAD9	-0.0024	0.9945
11007	E06	8516	283238	SLC22A24	-0.0024	0.9946
31017	H11	13299	400713	ZNF880	-0.0024	0.9946
51014	C10	52719	10887	PROKR1	-0.0024	0.9946
11059	H11	372	84129	ACAD11	-0.0023	0.9946
11043	F06	3133	513	ATP5D	-0.0023	0.9947
11086	F02	7017	10681	GNB5	-0.0023	0.9947
11069	A04	6335	54873	PALMD	-0.0023	0.9947
11084	D06	6709	7314	UBB	-0.0023	0.9947
11041	G05	6377	8341	HIST1H2BN	-0.0023	0.9948
51003	C11	53006	146712	B3GNTL1	-0.0023	0.9948
31044	B10	596	4116	MAGOH	-0.0023	0.9948
51021	H06	56800	123876	ACSM2A	-0.0022	0.9949
51027	G04	13972	79977	GRHL2	-0.0022	0.9949
51018	E03	56721	1401	CRP	-0.0022	0.9949
11063	A03	9452	11026	LILRA3	-0.0022	0.9949
51013	A12	53130	7059	THBS3	-0.0022	0.9949
11009	C05	5914	1152	CKB	-0.0022	0.9950
11016	C07	9153	25945	PVRL3	-0.0022	0.9951
11034	F10	2554	64092	SAMSN1	-0.0021	0.9951
51017	A09	56434	158983	H2BFWT	-0.0021	0.9952
31004	E07	11303	6837	MED22	-0.0021	0.9952
11071	G01	10004	166614	DCLK2	-0.0021	0.9953
51016	E04	56128	337875	HIST2H2BA	-0.0021	0.9953
51026	B02	53365	126859	C1orf125	-0.0020	0.9953
31019	F11	12979	131965	METTL6	-0.0020	0.9953
51033	A08	54423	6355	CCL8	-0.0020	0.9953
51016	E03	55631	6588	SLN	-0.0020	0.9953
51011	G01	54287	79745	CLIP4	-0.0020	0.9954
11073	C09	4344	83877	TM2D2	-0.0020	0.9954
51011	A08	52990	221178	SPATA13	-0.0020	0.9954
51004	A03	52799	164395	TTLL9	-0.0020	0.9954
11018	H03	3617	10550	ARL6IP5	-0.0020	0.9955
11056	B02	2768	55839	CENPN	-0.0020	0.9955
31008	A08	11702	388407	C17orf82	-0.0019	0.9955
51003	B08	54611	282617	IL28B	-0.0019	0.9956
11073	A08	8810	10013	HDAC6	-0.0019	0.9956

11078	G09	8788	57679	ALS2	-0.0019	0.9957
51013	G02	54794	90665	TBL1Y	-0.0019	0.9957
11075	B03	4393	6201	RPS7	-0.0019	0.9957
51004	E11	56564	9016	SLC25A14	-0.0019	0.9957
11039	F02	8127	7704	ZBTB16	-0.0019	0.9957
51004	G07	53812	128387	TATDN3	-0.0019	0.9957
11014	H09	455	9181	ARHGEF2	-0.0019	0.9957
31031	A04	14542	80097	MZT2B	-0.0018	0.9958
11030	C03	3993	5689	PSMB1	-0.0018	0.9958
11018	E06	6883	10772	SRSF10	-0.0018	0.9958
11001	B07	9945	84948	TIGD5	-0.0018	0.9958
31019	C07	13185	NA	NA	-0.0018	0.9959
11026	C09	8850	55182	RNF220	-0.0018	0.9959
11010	H11	7595	2542	SLC37A4	-0.0018	0.9959
11029	C02	2396	23593	HEBP2	-0.0018	0.9959
51013	D02	52823	341359	SYT10	-0.0017	0.9960
11054	D03	3805	7264	TSTA3	-0.0017	0.9960
31032	E10	14735	4739	NEDD9	-0.0017	0.9960
51004	F11	53955	9770	RASSF2	-0.0017	0.9961
11042	F11	5677	9412	MED21	-0.0017	0.9961
31022	E12	13585	53916	RAB4B	-0.0017	0.9961
51020	G08	55718	5207	PFKFB1	-0.0017	0.9961
51005	D09	55038	641371	ACOT1	-0.0017	0.9961
11076	G11	4886	8767	RIPK2	-0.0017	0.9962
11085	F09	6994	10237	SLC35B1	-0.0016	0.9963
11015	H10	5521	9551	ATP5J2	-0.0016	0.9963
51018	E10	55949	832	CAPZB	-0.0016	0.9964
11081	E03	8826	51611	DPH5	-0.0016	0.9964
31006	C07	11239	64747	MFSD1	-0.0016	0.9964
31015	F08	12623	10945	KDELR1	-0.0016	0.9964
11016	B05	7540	84661	DPY30	-0.0016	0.9964
11081	F12	8753	79642	ARSJ	-0.0016	0.9964
11018	D01	6336	4633	MYL2	-0.0016	0.9964
11001	E01	3115	140735	DYNLL2	-0.0015	0.9964
11017	F03	9091	55144	LRRC8D	-0.0015	0.9964
11047	D11	4338	84272	YIPF4	-0.0015	0.9965
31021	B06	13034	4055	LTBR	-0.0015	0.9965
11086	A10	993	24145	PANX1	-0.0015	0.9966
51001	F11	53037	9296	ATP6V1F	-0.0015	0.9967
31018	B04	13136	137695	TMEM68	-0.0014	0.9967
11041	F12	8056	29085	PHPT1	-0.0014	0.9967
11010	C08	3834	59307	SIGIRR	-0.0014	0.9967
11010	H09	3677	NA	NA	-0.0014	0.9967
11057	H08	4144	5467	PPARD	-0.0014	0.9967

31040	F01	2043	25850	ZNF345	-0.0014	0.9967
11005	B10	8465	146433	IL34	-0.0014	0.9968
31028	D05	14171	11016	ATF7	-0.0014	0.9968
11047	G04	2405	6426	SRSF1	-0.0014	0.9968
31042	A01	4063	1438	CSF2RA	-0.0014	0.9968
31004	E09	11011	6139	RPL17	-0.0014	0.9968
11010	G02	6131	55663	ZNF446	-0.0014	0.9969
11026	G02	2740	85236	HIST1H2BK	-0.0014	0.9969
31033	G03	14751	55536	CDCA7L	-0.0013	0.9969
11017	C01	5912	25764	C15orf63	-0.0013	0.9970
11072	C09	6060	5991	RFX3	-0.0013	0.9970
31013	A05	12134	90557	CCDC74A	-0.0013	0.9970
11026	G03	8379	140290	TCP10L	-0.0013	0.9970
51013	F04	53651	79718	TBL1XR1	-0.0013	0.9971
31005	E04	11259	11270	NRM	-0.0013	0.9971
31007	C01	11298	64446	DNAI2	-0.0013	0.9971
11025	C06	1884	3981	LIG4	-0.0013	0.9971
11076	G04	4427	23155	CLCC1	-0.0013	0.9971
11032	F01	1421	84692	CCDC54	-0.0013	0.9971
11034	E02	9342	222389	BEND7	-0.0013	0.9971
11038	G01	2003	6529	SLC6A1	-0.0012	0.9972
31006	H10	11132	29924	EPN1	-0.0012	0.9972
11020	G04	4992	51147	ING4	-0.0012	0.9972
31041	E06	5438	471	ATIC	-0.0012	0.9973
11026	B01	8283	284069	FAM171A2	-0.0012	0.9973
11043	E11	7425	202374	STK32A	-0.0012	0.9973
51012	B03	55222	54716	SLC6A20	-0.0012	0.9973
11005	E08	63	114049	WBSCR22	-0.0012	0.9973
11001	C03	9886	7979	SHFM1	-0.0011	0.9975
31018	B02	13116	6289	SAA2	-0.0011	0.9975
11035	H02	6300	635	BHMT	-0.0010	0.9977
31004	E05	11086	27233	SULT1C4	-0.0010	0.9977
11071	C05	1415	81616	ACSBG2	-0.0010	0.9977
31021	G08	12834	4774	NFIA	-0.0010	0.9977
11010	F11	4944	1267	CNP	-0.0010	0.9977
11027	B10	4660	7164	TPD52L1	-0.0010	0.9978
31042	E06	8030	79656	BEND5	-0.0010	0.9978
51029	A12	55230	90864	SPSB3	-0.0010	0.9978
31018	C10	13170	1588	CYP19A1	-0.0010	0.9978
31021	F07	12927	54558	SPATA6	-0.0009	0.9978
11048	E06	2778	11267	SNF8	-0.0009	0.9978
51011	H06	53007	695	BTK	-0.0009	0.9978
11037	C03	3497	2585	GALK2	-0.0009	0.9979
11003	B08	5748	8076	MFAP5	-0.0009	0.9979

11008	B12	6687	51629	SLC25A39	-0.0009	0.9980
11021	H07	3482	9184	BUB3	-0.0009	0.9980
11041	H05	5850	966	CD59	-0.0009	0.9980
11049	F12	1805	7050	TGIF1	-0.0009	0.9980
11064	B03	8403	920	CD4	-0.0008	0.9981
31030	G11	14198	25778	DSTYK	-0.0008	0.9981
11077	C01	8420	212	ALAS2	-0.0008	0.9981
11077	C05	2369	22908	SACMIL	-0.0008	0.9981
11044	B01	8258	340419	RSPO2	-0.0008	0.9981
11046	C01	3770	51329	ARL6IP4	-0.0008	0.9982
31015	B04	12648	51021	MRPS16	-0.0008	0.9982
11072	B02	3426	3295	HSD17B4	-0.0008	0.9983
31030	B11	14374	6778	STAT6	-0.0008	0.9983
51032	E12	55468	90639	COX19	-0.0008	0.9983
11081	A02	9156	3915	LAMC1	-0.0007	0.9983
31037	H11	15062	84264	HAGHL	-0.0007	0.9983
11007	E09	7542	902	CCNH	-0.0007	0.9983
11017	E10	7998	771	CA12	-0.0007	0.9983
11026	F12	2734	8519	IFITM1	-0.0007	0.9983
31044	C07	547	84126	ATRIP	-0.0007	0.9983
11062	C11	9911	221476	PI16	-0.0007	0.9984
51006	D08	55858	165530	CLEC4F	-0.0007	0.9984
31041	B07	7716	3654	IRAK1	-0.0007	0.9984
11040	H02	5542	344	APOC2	-0.0007	0.9985
11030	F02	3664	5224	PGAM2	-0.0007	0.9985
11047	F07	8536	627	BDNF	-0.0007	0.9985
11063	G08	9731	10469	TIMM44	-0.0007	0.9985
51035	A05	53680	7483	WNT9A	-0.0007	0.9985
11056	C03	2786	2782	GNB1	-0.0007	0.9985
11080	A11	2547	26148	C10orf12	-0.0006	0.9985
11002	G11	5432	84191	FAM96A	-0.0006	0.9986
11076	D09	969	9760	TOX	-0.0006	0.9986
11012	H10	2383	51493	C22orf28	-0.0006	0.9986
11073	D06	4212	10263	CDK2AP2	-0.0006	0.9986
11078	G03	6553	85021	REPS1	-0.0006	0.9986
31044	G01	4494	55829	SELS	-0.0005	0.9988
11056	D03	5644	51478	HSD17B7	-0.0005	0.9988
51012	B11	52694	169522	KCNV2	-0.0005	0.9989
11051	B11	8603	49855	SCAPER	-0.0005	0.9989
11087	F04	4780	2017	CTTN	-0.0005	0.9989
11057	E12	10060	115294	PCMTD1	-0.0004	0.9990
51020	C06	56319	9028	RHBDL1	-0.0004	0.9990
11006	E09	651	7417	VDAC2	-0.0004	0.9991
11075	G03	8700	91833	WDR20	-0.0004	0.9991

51013	C08	53588	130132	RFTN2	-0.0004	0.9991
51023	C12	56349	4897	NRCAM	-0.0004	0.9991
11038	D12	6236	81566	CSRNP2	-0.0004	0.9991
11070	A06	9725	51676	ASB2	-0.0004	0.9991
31002	A09	10576	8976	WASL	-0.0004	0.9991
11026	H08	3051	10581	IFITM2	-0.0004	0.9991
11059	E04	1977	4886	NPY1R	-0.0004	0.9991
11074	E10	1372	55222	LRRC20	-0.0004	0.9992
11085	F11	7091	6618	SNAPC2	-0.0004	0.9992
11074	B09	5773	374291	NDUFS7	-0.0004	0.9992
11037	E05	9857	84920	ALG10	-0.0004	0.9992
11059	A02	8366	4589	MUC7	-0.0003	0.9992
51001	D06	54200	10141	C4orf6	-0.0003	0.9993
31003	B05	10515	1272	CNTN1	-0.0003	0.9993
31029	E11	14388	5739	PTGIR	-0.0003	0.9993
51014	G10	52881	319101	KRT73	-0.0003	0.9994
11040	B09	5131	84996	C21orf119	-0.0002	0.9995
31042	B01	4231	79411	GLB1L	-0.0002	0.9995
51034	A12	54065	26664	OR7C1	-0.0002	0.9995
31009	C06	11755	22846	VASH1	-0.0002	0.9995
11072	E04	3465	1601	DAB2	-0.0002	0.9995
51030	B05	55527	55170	PRMT6	-0.0002	0.9996
51033	D07	54622	387082	SUMO4	-0.0002	0.9996
11015	A08	6111	6066	RNU2-1	-0.0002	0.9996
51023	E11	55207	23236	PLCB1	-0.0001	0.9997
11012	F02	5760	92747	C20orf114	-0.0001	0.9998
31007	C07	10833	23528	ZNF281	-0.0001	0.9998
11049	E11	615	3202	HOXA5	-0.0001	0.9998
51009	C07	54896	57650	KIAA1524	-0.0001	0.9998
51031	G03	56940	645104	CLRN2	-0.0001	0.9998
51034	E08	54187	27020	NPTN	-0.0001	0.9998
51002	H01	52631	6992	PPP1R11	-0.0001	0.9998
11088	F10	340	7869	SEMA3B	-0.0001	0.9998
51017	A11	56714	63904	DUSP21	0.0000	0.9999
11066	G11	1890	169270	ZNF596	0.0000	0.9999
11042	B10	8418	6366	CCL21	0.0000	0.9999
51003	F11	53212	54763	ROPN1	0.0000	1.0000
31032	H03	14646	57693	ZNF317	0.0000	1.0000
31030	A10	14421	60561	RINT1	0.0000	1.0000
11049	H01	1267	51277	DNAJC27	0.0000	1.0001
11079	D11	6465	9632	SEC24C	0.0000	1.0001
11026	G01	8200	123207	C15orf40	0.0000	1.0001
11063	F04	4956	5664	PSEN2	0.0001	1.0001
11081	B03	1917	NA	NA	0.0001	1.0002

31012	A04	12295	374882	TMEM205	0.0001	1.0002
11078	C03	6502	25902	MTHFD1L	0.0001	1.0002
11045	F07	102	5010	CLDN11	0.0001	1.0002
11069	B02	9652	79786	KLHL36	0.0001	1.0002
11051	C08	8970	64210	MMS19	0.0001	1.0002
11027	E08	8734	151516	ASPRV1	0.0001	1.0002
31017	A04	12803	9039	UBA3	0.0001	1.0002
51002	G11	52616	29934	SNX12	0.0001	1.0003
31004	C12	10991	128861	C20orf71	0.0001	1.0003
51035	B07	53911	285180	RUFY4	0.0001	1.0003
11066	B11	10065	7287	TULP1	0.0002	1.0004
31032	F06	14554	23051	ZHX3	0.0002	1.0004
11071	F06	7765	22895	RPH3A	0.0002	1.0004
11002	E05	5763	55850	USE1	0.0002	1.0004
31014	E08	11950	64860	ARMCX5	0.0002	1.0005
31026	G10	13863	7380	UPK3A	0.0002	1.0005
31040	A11	1960	7514	XPO1	0.0002	1.0005
11027	C12	8142	9019	MPZL1	0.0003	1.0006
51010	G10	52818	22987	SV2C	0.0003	1.0006
11009	B02	167	59	ACTA2	0.0003	1.0006
11061	G01	9492	144699	FBXL14	0.0003	1.0007
51015	B03	52732	27199	OXGR1	0.0003	1.0007
31045	H01	2691	92345	NAF1	0.0003	1.0007
11021	E06	5634	79366	HMG5	0.0003	1.0007
11082	G10	3275	51258	MRPL51	0.0004	1.0008
11038	C01	3371	219	ALDH1B1	0.0004	1.0008
31042	A05	6291	662	BNIP1	0.0004	1.0009
31037	C01	11843	7056	THBD	0.0004	1.0009
11065	H09	2541	1195	CLK1	0.0004	1.0010
51003	F12	52784	124912	SPACA3	0.0004	1.0010
51009	H01	53092	27255	CNTN6	0.0004	1.0010
11028	H09	3626	51545	ZNF581	0.0004	1.0010
31040	D08	8269	162989	DEDD2	0.0004	1.0010
11085	H08	9772	131474	CHCHD4	0.0005	1.0011
11009	A08	6015	4676	NAP1L4	0.0005	1.0011
11005	C01	2247	255193	C19orf34	0.0005	1.0011
11024	A05	3456	10533	ATG7	0.0005	1.0012
11089	B01	92	9121	SLC16A5	0.0005	1.0012
11012	F12	8499	79849	PDZD3	0.0005	1.0012
11018	E01	7949	51617	HMP19	0.0005	1.0012
11009	A12	328	92703	TMEM183A	0.0005	1.0013
11055	F02	3951	79947	DHDDS	0.0006	1.0013
51030	B11	55472	23505	TMEM131	0.0006	1.0013
11006	F05	2032	84528	RHOXF2	0.0006	1.0014

11070	H01	8247	3680	ITGA9	0.0006	1.0014
51008	E08	55174	3480	IGF1R	0.0006	1.0015
31007	E07	11284	10868	USP20	0.0007	1.0015
51021	D09	56402	57089	ENTPD7	0.0007	1.0016
51001	H03	52609	341947	COX8C	0.0007	1.0016
51031	D03	55412	118738	ZNF488	0.0007	1.0017
11001	G05	9237	145942	TMCO5A	0.0007	1.0017
51023	A12	53689	3635	INPP5D	0.0008	1.0017
11005	B05	2221	196472	FAM71C	0.0008	1.0017
51035	F10	54573	57093	TRIM49	0.0008	1.0017
51034	B05	55003	414318	C9orf106	0.0008	1.0018
11061	H01	5781	5672	PSG4	0.0008	1.0018
51028	C03	55633	50650	ARHGEF3	0.0008	1.0018
51008	E02	55218	3832	KIF11	0.0008	1.0018
11041	D02	8945	27086	FOXP1	0.0008	1.0019
31007	H10	11454	124773	C17orf64	0.0008	1.0019
51009	A10	54352	7049	TGFBR3	0.0008	1.0019
11073	C02	4648	3281	HSBP1	0.0008	1.0019
31037	F04	13483	115939	C16orf42	0.0008	1.0020
11015	D01	5783	5441	POLR2L	0.0009	1.0020
11052	C01	1075	136895	C7orf31	0.0009	1.0020
11022	G01	3238	8692	HYAL2	0.0009	1.0020
11055	E06	1561	493861	EID3	0.0009	1.0020
51035	C07	55093	54662	TBC1D13	0.0009	1.0021
31043	B09	7897	9440	MED17	0.0009	1.0021
51031	H04	55509	90864	SPSB3	0.0009	1.0021
11044	F04	3082	6141	RPL18	0.0009	1.0021
11060	A02	9308	254394	MCM9	0.0009	1.0021
51029	F08	56364	131	ADH7	0.0009	1.0021
11024	H06	9695	4175	MCM6	0.0009	1.0022
11035	A09	8510	56302	TRPV5	0.0009	1.0022
51035	A03	53998	147965	FAM98C	0.0009	1.0022
51022	B10	56214	7128	TNFAIP3	0.0009	1.0022
51014	G09	53081	138009	DCAF4L2	0.0010	1.0022
11018	G04	7108	5906	RAP1A	0.0010	1.0022
31013	A10	12063	51490	C9orf114	0.0010	1.0022
11078	A12	6570	93627	TBCK	0.0010	1.0023
11085	D02	481	794	CALB2	0.0010	1.0023
11077	A11	1544	5992	RFX4	0.0010	1.0024
11083	B10	7492	2512	FTL	0.0010	1.0024
11004	H03	705	997	CDC34	0.0010	1.0024
31004	D11	11274	140	ADORA3	0.0010	1.0024
11053	C06	1651	9659	PDE4DIP	0.0010	1.0024
51030	F01	55389	143458	LDLRAD3	0.0011	1.0025

11016	B03	6525	2768	GNA12	0.0011	1.0025
11066	A02	4755	9025	RNF8	0.0011	1.0025
11066	F04	10197	2046	EPHA8	0.0011	1.0025
11067	H08	1854	146562	C16orf71	0.0011	1.0025
11067	G07	2331	5144	PDE4D	0.0011	1.0025
11045	D07	2839	65117	RSRC2	0.0011	1.0025
51009	B11	54212	7099	TLR4	0.0011	1.0026
31031	B05	14510	220869	CBWD5	0.0011	1.0026
11012	D12	6863	25973	PARS2	0.0012	1.0027
11022	B06	7546	1901	S1PR1	0.0012	1.0027
51012	B12	54792	152405	C3orf30	0.0012	1.0027
11052	A08	8062	1775	DNASE1L2	0.0012	1.0027
11046	C03	2012	222662	LHFPL5	0.0012	1.0027
31021	F05	12880	64418	TMEM168	0.0012	1.0028
11053	A10	1312	150280	HORMAD2	0.0012	1.0028
11074	A03	4027	54949	SDHAF2	0.0012	1.0028
51035	H08	53663	342035	GLDN	0.0012	1.0029
11046	B10	6452	1977	EIF4E	0.0012	1.0029
11001	E12	377	4149	MAX	0.0013	1.0029
51004	B05	56023	729238	SFTPA2	0.0013	1.0029
11077	E05	95	5780	PTPN9	0.0013	1.0030
11022	G05	3422	5819	PVRL2	0.0013	1.0031
51009	B06	53987	79585	CORO7	0.0013	1.0031
51022	E07	55862	7783	ZP2	0.0014	1.0031
11074	E01	4477	689	BTF3	0.0014	1.0031
11007	B09	7519	9111	NMI	0.0014	1.0032
11001	B10	9571	225689	MAPK15	0.0014	1.0032
51006	G08	56417	374454	KRT77	0.0014	1.0032
31023	E06	13476	339230	CCDC137	0.0014	1.0032
31005	F12	11160	200316	APOBEC3F	0.0014	1.0033
11006	H03	8097	1687	DFNA5	0.0014	1.0033
31030	E03	14329	11221	DUSP10	0.0014	1.0033
11075	G07	4286	23648	SSBP3	0.0014	1.0033
51031	F07	56489	5542	PRB1	0.0015	1.0034
51020	C07	55809	2661	GDF9	0.0015	1.0034
11004	D06	6255	51014	TMED7	0.0015	1.0034
51016	E09	56782	285045	LOC285045	0.0015	1.0035
11066	A08	4610	79109	MAPKAP1	0.0015	1.0035
11046	H08	4500	NA	NA	0.0015	1.0035
11076	F02	4104	7205	TRIP6	0.0015	1.0035
11035	D08	6278	80227	PAAF1	0.0015	1.0036
11006	B09	1231	358	AQP1	0.0016	1.0036
11010	D08	445	79576	NKAP	0.0016	1.0036
31034	A03	14930	23521	RPL13A	0.0016	1.0036

51021	F11	56316	9422	ZNF264	0.0016	1.0037
31008	G01	11770	8545	CGGBP1	0.0016	1.0037
51031	D04	55352	55586	MIOX	0.0016	1.0037
31041	F01	7053	25796	PGLS	0.0016	1.0037
51031	A06	15067	5869	RAB5B	0.0016	1.0037
31041	D10	8973	332	BIRC5	0.0016	1.0037
51011	H01	52859	64753	CCDC136	0.0016	1.0037
11044	A12	549	10551	AGR2	0.0016	1.0037
11079	B12	10230	5294	PIK3CG	0.0016	1.0037
51022	F03	56687	80332	ADAM33	0.0016	1.0038
11088	F08	2907	4916	NTRK3	0.0017	1.0039
31045	F02	223	23168	RTF1	0.0017	1.0039
31008	C08	11445	338692	ANKRD13D	0.0017	1.0039
11059	B07	240	55646	LYAR	0.0017	1.0039
11015	D09	3298	4694	NDUFA1	0.0017	1.0039
11032	D01	6040	118980	SFXN2	0.0017	1.0039
51030	E11	56143	1633	DCK	0.0017	1.0040
11004	C11	715	57045	TWSG1	0.0017	1.0040
11026	C10	2308	100131997	FAM27E3	0.0018	1.0041
31024	E03	13461	90507	SCRN2	0.0018	1.0041
31042	F02	6524	4357	MPST	0.0018	1.0041
31019	D06	12999	54210	TREM1	0.0018	1.0042
51024	A02	53929	55160	ARHGEF10L	0.0018	1.0042
11046	E07	6913	113115	FAM54A	0.0018	1.0042
51025	G09	53143	3996	LLGL1	0.0018	1.0042
51011	E08	54104	83851	SYT16	0.0018	1.0043
11017	E01	7453	51246	SHISA5	0.0019	1.0043
31018	C04	12983	80013	FAM188A	0.0019	1.0043
31022	G06	13388	87769	A2LD1	0.0019	1.0043
11086	E03	2886	8568	RRP1	0.0019	1.0043
51027	C06	53139	93034	NT5C1B	0.0019	1.0044
51032	D02	56355	284800	FAM182A	0.0019	1.0044
11079	A07	2244	144406	WDR66	0.0019	1.0044
31011	E02	11567	8887	TAX1BP1	0.0019	1.0045
11021	B03	5656	3816	KLK1	0.0020	1.0045
11050	E05	1663	55531	ELMOD1	0.0020	1.0045
31038	F12	4966	8445	DYRK2	0.0020	1.0045
11070	F01	8361	84167	C19orf44	0.0020	1.0046
11056	B05	6895	65009	NDRG4	0.0020	1.0046
11072	D12	3043	4957	ODF2	0.0020	1.0046
31026	G04	13834	90427	BMF	0.0020	1.0046
11077	D05	4059	2633	GBP1	0.0020	1.0046
11018	E04	7903	203245	NAIF1	0.0020	1.0046
11008	C01	503	468	ATF4	0.0020	1.0046

11034	C10	1660	23386	NUDCD3	0.0020	1.0047
11011	H06	653	8607	RUVBL1	0.0020	1.0047
11047	D09	1095	390	RND3	0.0020	1.0047
31001	B12	10615	8706	B3GALNT1	0.0020	1.0047
51028	G09	55562	145389	SLC38A6	0.0021	1.0047
31044	G03	4878	1241	LTB4R	0.0021	1.0047
31008	D11	11614	55082	ARGLU1	0.0021	1.0048
11018	D07	6735	706	TSPO	0.0021	1.0049
31039	B09	209	11339	OIP5	0.0021	1.0049
11066	D10	2956	9684	LRRC14	0.0021	1.0049
31002	E08	10511	79730	NSUN7	0.0021	1.0049
31040	E08	10099	1746	DLX2	0.0021	1.0049
31044	G07	9629	6768	ST14	0.0021	1.0049
11069	D08	10138	84958	SYTL1	0.0021	1.0049
11062	G03	1407	10881	ACTL7A	0.0022	1.0050
11014	D11	4812	2997	GYS1	0.0022	1.0050
31010	E11	11799	9513	FXR2	0.0022	1.0050
11082	H08	1511	132989	C4orf36	0.0022	1.0050
31003	B06	10556	57541	ZNF398	0.0022	1.0050
51033	E08	54773	388701	C1orf189	0.0022	1.0051
31036	C08	11873	150275	CCDC117	0.0022	1.0051
11071	E10	1074	11043	MID2	0.0022	1.0051
31025	G01	13349	388536	ZNF790	0.0022	1.0052
31040	E09	9777	196743	PAOX	0.0022	1.0052
51005	E06	54010	6754	SSTR4	0.0022	1.0052
11056	A08	5944	11332	ACOT7	0.0023	1.0052
11030	F07	9750	114609	TIRAP	0.0023	1.0052
11007	C04	2785	54707	GPN2	0.0023	1.0052
31006	E11	10960	5469	MED1	0.0023	1.0052
51021	A04	56330	8322	FZD4	0.0023	1.0053
51004	G04	52756	201633	TIGIT	0.0023	1.0053
31034	A05	14946	5721	PSME2	0.0023	1.0053
31030	F10	14280	6046	BRD2	0.0023	1.0054
31029	D10	14254	153579	BTNL9	0.0023	1.0054
51006	G02	54732	146279	TEKT5	0.0024	1.0056
51011	E03	53994	116835	HSPA12B	0.0025	1.0057
31010	B04	11706	10454	TAB1	0.0025	1.0057
31008	F08	11331	55796	MBNL3	0.0025	1.0058
11053	A12	3589	7353	UFD1L	0.0025	1.0058
11017	H06	6500	84141	FAM176A	0.0025	1.0058
11028	B07	1067	51157	ZNF580	0.0025	1.0058
51021	B06	56360	91624	NEXN	0.0025	1.0058
51020	B06	55852	8521	GCM1	0.0025	1.0058
11030	B11	9586	150365	MEI1	0.0025	1.0058

11044	F03	8637	130026	ICA1L	0.0025	1.0058
11014	D01	218	11004	KIF2C	0.0025	1.0059
11070	D11	9706	89857	KLHL6	0.0026	1.0059
11039	A02	6882	8623	ASMTL	0.0026	1.0059
11024	D09	4395	833	CARS	0.0026	1.0059
51022	E02	56643	83933	HDAC10	0.0026	1.0060
31004	D08	11088	4005	LMO2	0.0026	1.0061
31038	C11	9630	8877	SPHK1	0.0026	1.0061
11043	H08	953	2653	GCSH	0.0027	1.0061
11022	H05	4006	2539	G6PD	0.0027	1.0061
51011	B05	52968	5578	PRKCA	0.0027	1.0062
51005	A07	53797	54715	A2BP1	0.0027	1.0062
11006	H09	7426	9694	TTC35	0.0027	1.0062
11040	A01	5159	84986	ARHGAP19	0.0027	1.0062
31029	H10	14257	141	ADPRH	0.0027	1.0063
11010	A11	4701	6122	RPL3	0.0027	1.0063
31004	A08	11018	7323	UBE2D3	0.0027	1.0063
51016	G10	56129	353132	LCE1B	0.0027	1.0063
11001	B01	403	112597	NCRNA00152	0.0028	1.0064
51032	C02	55318	4521	NUDT1	0.0028	1.0064
11045	E07	3002	54517	PUS7	0.0028	1.0065
11061	A08	7197	84553	C6orf168	0.0028	1.0065
31045	B08	4632	6224	RPS20	0.0028	1.0066
11075	A05	1683	6297	SALL2	0.0029	1.0067
51035	B03	53785	84197	SGK196	0.0029	1.0067
11083	B02	9248	909	CD1A	0.0029	1.0067
11014	G05	282	9782	MATR3	0.0029	1.0067
31044	E08	9581	23400	ATP13A2	0.0029	1.0067
31038	C03	14608	8331	HIST1H2AJ	0.0029	1.0067
31012	G11	11938	3225	HOXC9	0.0029	1.0067
31039	A12	3977	10615	SPAG5	0.0029	1.0068
11086	D02	7064	84062	DTNBP1	0.0029	1.0068
31044	H05	4081	6604	SMARCD3	0.0030	1.0068
51027	D07	55287	9903	KLHL21	0.0030	1.0069
11048	G11	2815	7923	HSD17B8	0.0030	1.0070
51008	B12	53069	10396	ATP8A1	0.0031	1.0071
11038	F11	1287	53358	SHC3	0.0031	1.0071
11008	E03	347	55559	HAUS7	0.0031	1.0071
11021	H09	3226	1861	TOR1A	0.0031	1.0071
11030	E09	8846	51078	THAP4	0.0031	1.0071
11003	B12	10237	54981	C9orf95	0.0031	1.0071
11069	E09	6616	54461	FBXW5	0.0031	1.0073
31039	E03	6669	1605	DAG1	0.0032	1.0073
11017	D05	6455	5203	PFDN4	0.0032	1.0073

51009	D03	53085	26059	ERC2	0.0032	1.0073
11019	C11	6275	7123	CLEC3B	0.0032	1.0074
31007	H07	10826	8853	ASAP2	0.0032	1.0074
11026	E05	2890	84923	FAM104A	0.0032	1.0074
11035	E01	2122	7357	UGCG	0.0032	1.0074
11037	D07	3689	2645	GCK	0.0032	1.0074
11067	G04	4300	1718	DHCR24	0.0032	1.0075
11063	E08	2874	2664	GDI1	0.0033	1.0075
31042	A12	5938	9410	SNRNP40	0.0033	1.0075
11012	B02	7569	4723	NDUFV1	0.0033	1.0076
31012	D08	12101	9958	USP15	0.0033	1.0076
11071	B06	1190	79959	CEP76	0.0033	1.0076
31002	B02	10805	2776	GNAQ	0.0033	1.0076
11021	H05	3785	51608	GET4	0.0033	1.0076
31045	E05	8863	51447	IP6K2	0.0033	1.0076
51009	E08	53062	9348	NDST3	0.0033	1.0077
51025	F07	56322	23387	SIK3	0.0033	1.0077
11060	C06	1386	414301	DDI1	0.0034	1.0078
31038	D04	14639	1902	LPAR1	0.0034	1.0078
11076	C11	4298	50615	IL21R	0.0034	1.0078
11001	D09	3088	341	APOC1	0.0034	1.0078
31006	H08	11184	7690	ZNF131	0.0034	1.0078
11006	C09	6532	79096	C11orf49	0.0034	1.0079
11074	D06	5513	25801	GCA	0.0034	1.0079
11080	G09	4767	4796	NFKBIL2	0.0035	1.0080
11068	D11	10229	8974	P4HA2	0.0035	1.0080
11007	G04	7515	7518	XRCC4	0.0035	1.0080
11032	D09	6317	29880	ALG5	0.0035	1.0081
51011	E07	53458	55512	SMPD3	0.0035	1.0081
51010	B02	54322	7709	ZBTB17	0.0035	1.0081
11078	H11	6262	996	CDC27	0.0035	1.0081
11022	D02	7328	115948	CCDC151	0.0035	1.0081
11010	D12	6082	64419	MTMR14	0.0036	1.0082
11042	C11	7060	6158	RPL28	0.0036	1.0082
11063	A11	1806	51203	NUSAP1	0.0036	1.0083
11026	G10	173	94239	H2AFV	0.0036	1.0083
31003	B03	10789	11213	IRAK3	0.0036	1.0084
11059	B11	9628	7408	VASP	0.0037	1.0085
11017	G03	7913	100132341	KIAA0664L3	0.0037	1.0085
51034	A08	55122	196051	PPAPDC1A	0.0037	1.0086
11041	D11	2603	2577	GAGE5	0.0037	1.0086
31043	A09	6660	26986	PABPC1	0.0037	1.0086
51020	A05	56367	140894	C20orf152	0.0037	1.0086
51028	H01	55357	1600	DAB1	0.0037	1.0086

11049	D01	6266	90139	TSPAN18	0.0037	1.0087
31001	F10	10326	10368	CACNG3	0.0038	1.0087
31001	F04	10403	376267	RAB15	0.0038	1.0087
11060	G10	8754	54443	ANLN	0.0038	1.0088
31018	F04	13177	378708	APITD1	0.0038	1.0088
31042	D10	5166	9673	SLC25A44	0.0038	1.0089
11035	C07	4691	5833	PCYT2	0.0039	1.0089
51029	E02	53246	79682	MLF1IP	0.0039	1.0089
11008	D05	745	4793	NFKBIB	0.0039	1.0089
11058	F01	9757	152926	PPM1K	0.0039	1.0089
31028	H04	14088	554223	LOC554223	0.0039	1.0090
51034	G06	53559	6716	SRD5A2	0.0039	1.0090
11066	G09	4740	3663	IRF5	0.0039	1.0090
51002	A11	54521	2765	GML	0.0039	1.0090
11017	H10	3904	7851	MALL	0.0039	1.0091
31024	B09	13428	222255	ATXN7L1	0.0039	1.0091
51002	G07	54177	339345	NANOS2	0.0039	1.0091
51001	B09	55530	83699	SH3BGRL2	0.0039	1.0091
31001	C05	10781	388818	KRTAP26-1	0.0039	1.0091
11010	A12	6102	59338	PLEKHA1	0.0040	1.0091
11001	E06	2813	6352	CCL5	0.0040	1.0091
51009	E12	53840	165829	GPR156	0.0040	1.0092
11022	F09	7772	5718	PSMD12	0.0040	1.0092
31039	D12	2319	100131816	UBE2DNL	0.0040	1.0093
31042	C02	6386	57489	ODF2L	0.0040	1.0093
11026	A10	3443	6637	SNRPG	0.0040	1.0093
11062	C04	5174	10494	STK25	0.0040	1.0093
31020	F03	13240	51184	GPN3	0.0040	1.0093
11001	H03	714	51650	MRPS33	0.0040	1.0093
11002	H01	10130	161253	REM2	0.0040	1.0093
11074	G04	5721	56925	LXN	0.0040	1.0093
11060	D10	1600	10314	LANCL1	0.0040	1.0094
11017	C02	9149	29967	LRP12	0.0040	1.0094
11003	B05	10143	136306	SVOPL	0.0041	1.0094
11010	A08	432	26135	SERBP1	0.0041	1.0094
11062	D06	9862	84654	SPZ1	0.0041	1.0095
51005	G11	54395	347735	SERINC2	0.0041	1.0096
31002	D09	10510	201798	TIGD4	0.0042	1.0096
11051	C06	2978	6307	SC4MOL	0.0042	1.0096
11084	D11	594	79269	DCAF10	0.0042	1.0096
51031	E02	56909	152573	SHISA3	0.0042	1.0097
11002	F12	9016	9204	ZMYM6	0.0042	1.0097
11024	G08	4479	6240	RRM1	0.0042	1.0097
51030	H03	56503	340069	FAM170A	0.0042	1.0097

31008	C04	11491	128338	DRAM2	0.0042	1.0097
11072	D04	1788	79711	IPO4	0.0042	1.0097
31041	F03	7606	79444	BIRC7	0.0042	1.0097
11082	C06	8768	158427	TSTD2	0.0042	1.0097
11076	F11	966	3932	LCK	0.0042	1.0098
11055	G09	8860	11060	WWP2	0.0042	1.0098
11009	E11	5567	6317	SERPINB3	0.0043	1.0099
11017	E04	7670	84908	FAM136A	0.0043	1.0099
11046	A03	1668	55145	THAP1	0.0043	1.0099
11045	F03	2089	54766	BTG4	0.0043	1.0099
11042	F02	2408	28977	MRPL42	0.0043	1.0100
51030	E02	56764	83650	AMAC1L2	0.0043	1.0100
31003	E10	10738	11231	SEC63	0.0043	1.0100
31044	D01	3724	8673	VAMP8	0.0044	1.0101
51020	C04	56049	51765	MST4	0.0044	1.0101
31044	B06	3446	55227	LRRC1	0.0044	1.0101
11088	C04	5980	25842	ASF1A	0.0044	1.0102
11028	B02	8343	399670	RPL13AP17	0.0044	1.0102
31008	B03	11365	10068	IL18BP	0.0044	1.0102
11076	G08	470	57834	CYP4F11	0.0044	1.0102
11044	G01	2697	23468	CBX5	0.0044	1.0103
51034	E07	54230	4284	MIP	0.0044	1.0103
11006	H10	7259	2784	GNB3	0.0044	1.0103
51001	C08	54834	285679	C5orf60	0.0044	1.0103
11009	C12	3365	170463	SSBP4	0.0045	1.0103
11050	E01	1856	131540	ZDHHC19	0.0045	1.0104
11016	A12	6295	1475	CSTA	0.0045	1.0104
51014	E12	53027	230	ALDOC	0.0045	1.0105
11079	B04	723	5066	PAM	0.0046	1.0106
11046	B12	3205	5867	RAB4A	0.0046	1.0106
11059	G04	4797	80700	UBXN6	0.0046	1.0107
11025	H01	5060	9810	RNF40	0.0046	1.0107
11070	G04	7861	3507	IGHM	0.0046	1.0107
31011	E08	11963	NA	NA	0.0046	1.0107
51005	F01	55812	1539	CYLC2	0.0046	1.0107
51004	D05	53798	27247	NFU1	0.0046	1.0108
51033	A04	55348	NA	NA	0.0047	1.0108
51012	C04	52665	80024	SLC24A6	0.0047	1.0108
11086	G05	8480	3594	IL12RB1	0.0047	1.0109
11089	C01	1082	11182	SLC2A6	0.0047	1.0109
11047	A10	9656	NA	NA	0.0047	1.0109
51035	G03	53606	3361	HTR5A	0.0047	1.0109
31007	D06	10945	8874	ARHGEF7	0.0047	1.0109
31045	D04	7243	55072	RNF31	0.0047	1.0109

11083	D11	4708	1312	COMT	0.0047	1.0110
51002	G01	52572	9084	VCY	0.0047	1.0110
31008	E07	11823	10898	CPSF4	0.0047	1.0110
11044	C06	530	754	PTTG1IP	0.0048	1.0110
51028	E02	55624	26000	TBC1D10B	0.0048	1.0110
11030	G11	6746	3052	HCCS	0.0048	1.0110
31008	D04	11330	408029	C2orf27B	0.0048	1.0111
11074	D10	8942	11322	TMC6	0.0048	1.0111
11010	B10	497	957	ENTPD5	0.0048	1.0111
11019	E05	8857	55040	EPN3	0.0048	1.0111
11059	C12	3908	27005	USP21	0.0048	1.0111
11076	F09	9295	55296	TBC1D19	0.0048	1.0111
11072	H04	1916	139105	BEND2	0.0048	1.0111
11021	E03	5599	3364	HUS1	0.0048	1.0112
31015	E06	12468	221545	C6orf136	0.0048	1.0112
11061	B08	8355	55876	GSDMB	0.0048	1.0112
11068	H06	2116	7566	ZNF18	0.0048	1.0112
51023	C11	54997	3716	JAK1	0.0048	1.0112
11012	A06	113	1915	EEF1A1	0.0049	1.0112
11075	F10	3826	5434	POLR2E	0.0049	1.0112
31007	F02	11058	163882	CNST	0.0049	1.0113
31009	E10	11393	4351	MPI	0.0049	1.0113
11058	E05	2311	4735	SEPT2	0.0049	1.0113
51012	G04	53032	60482	SLC5A7	0.0049	1.0113
11053	D02	3896	6576	SLC25A1	0.0049	1.0114
31018	D11	13083	10878	CFHR3	0.0049	1.0114
31007	B09	12221	23644	EDC4	0.0049	1.0114
11022	F07	7597	3662	IRF4	0.0049	1.0114
51002	H09	55492	257000	PLAC2	0.0049	1.0114
11021	G09	3867	84275	SLC25A33	0.0049	1.0115
51026	F10	56822	10020	GNE	0.0050	1.0115
31022	D05	13328	283	ANG	0.0050	1.0115
51003	B09	55580	1489	CTF1	0.0050	1.0115
31030	G09	14271	199704	ZNF585A	0.0050	1.0116
31006	E05	10851	5915	RARB	0.0050	1.0116
11027	H04	2675	51367	POP5	0.0050	1.0116
11019	C08	7407	5005	ORM2	0.0050	1.0117
11028	F07	728	147184	CENPN	0.0050	1.0117
11074	F09	4163	51090	PLLP	0.0050	1.0117
11063	F08	4260	84790	TUBA1C	0.0051	1.0117
11005	B03	3905	6638	SNRPN	0.0051	1.0117
11058	C06	1475	403314	APOBEC4	0.0051	1.0118
11018	D10	6990	54788	DNAJB12	0.0051	1.0118
11016	G09	5667	84832	ANKRD36BP1	0.0051	1.0118

51014	C05	52994	258	AMBN	0.0051	1.0118
11060	A04	9533	374618	TEX9	0.0051	1.0118
11065	D08	383	90441	ZNF622	0.0051	1.0118
51002	D02	52571	3018	HIST1H2BB	0.0051	1.0118
11021	D05	5107	84307	ZNF397	0.0051	1.0118
11087	H05	9453	80778	ZNF34	0.0051	1.0118
51024	H01	56089	26098	C10orf137	0.0051	1.0118
11004	H08	68	81926	FAM108A1	0.0051	1.0119
11016	F04	3702	4701	NDUFA7	0.0051	1.0119
11018	E09	6960	6135	RPL11	0.0052	1.0119
11075	D07	2374	23204	ARL6IP1	0.0052	1.0120
11051	H01	4446	2067	ERCC1	0.0052	1.0120
11054	C12	4405	79174	CRELD2	0.0052	1.0121
31028	B11	14170	8936	WASF1	0.0052	1.0121
11085	A07	8300	3779	KCNMB1	0.0052	1.0121
31041	F06	5845	3507	IGHM	0.0052	1.0121
11022	B04	7558	10641	NPRL2	0.0052	1.0122
31038	A11	8665	56899	ANKS1B	0.0053	1.0122
11081	B12	1737	619343	C8orf68	0.0053	1.0123
11043	H04	4990	11165	NUDT3	0.0053	1.0123
31029	B05	14419	92703	TMEM183A	0.0053	1.0123
11010	H07	3179	10212	DDX39	0.0053	1.0123
31041	B06	5436	3831	KLC1	0.0053	1.0124
51015	H07	53038	4860	PNP	0.0053	1.0124
51028	H05	55834	3889	KRT83	0.0054	1.0124
11079	D03	5196	57062	DDX24	0.0054	1.0125
11085	H01	2283	117245	HRASLS5	0.0054	1.0125
51012	F12	52909	94015	TTYH2	0.0054	1.0125
11017	F12	6341	3047	HBG1	0.0054	1.0126
51004	C08	54672	89778	SERPINB11	0.0054	1.0126
31044	A03	3509	5955	RCN2	0.0055	1.0126
11088	G08	789	122786	FRMD6	0.0055	1.0127
51026	H03	55532	83637	ZMIZ2	0.0055	1.0128
11045	B09	616	9270	ITGB1BP1	0.0055	1.0128
11016	H05	9011	23136	EPB41L3	0.0055	1.0128
31019	F12	13261	10635	RAD51AP1	0.0055	1.0128
51024	H09	55132	81846	SBF2	0.0055	1.0128
51030	G01	56912	388595	TMEM82	0.0055	1.0128
51029	D01	55456	NA	NA	0.0055	1.0128
51025	F09	53165	1356	CP	0.0055	1.0128
51031	H02	55420	171177	RHOV	0.0055	1.0129
31029	F05	14468	27010	TPK1	0.0056	1.0129
11032	C04	6662	26123	TCTN3	0.0056	1.0129
11053	F05	1976	6785	ELOVL4	0.0056	1.0129

11025	A06	9931	22899	ARHGEF15	0.0056	1.0130
11062	B05	6636	115572	FAM46B	0.0056	1.0130
11003	F06	6159	7078	TIMP3	0.0056	1.0131
31032	F03	14622	2687	GGT5	0.0057	1.0131
51035	H04	53257	4207	LOC729991- MEF2B	0.0057	1.0132
11087	C07	7212	9531	BAG3	0.0057	1.0133
51027	B03	55543	11054	OGFR	0.0057	1.0133
51006	G04	54241	8638	OASL	0.0058	1.0134
31017	H02	12633	7280	TUBB2A	0.0058	1.0134
51022	A09	56663	134265	AFAP1L1	0.0058	1.0134
51021	B11	56390	2160	F11	0.0058	1.0134
11030	B09	398	10285	SMNDC1	0.0058	1.0134
11003	H11	231	5901	RAN	0.0058	1.0135
11027	D05	3379	125058	TBC1D16	0.0058	1.0135
11076	D02	4889	79961	DENND2D	0.0058	1.0135
11028	F11	3360	65991	FUNDC2	0.0058	1.0135
11084	C09	10225	7355	SLC35A2	0.0058	1.0136
11082	B11	2195	375189	PFN4	0.0058	1.0136
11027	A01	6097	3956	LGALS1	0.0059	1.0136
11055	E03	4770	2531	KDSR	0.0059	1.0136
11005	C06	3062	1632	DCI	0.0059	1.0136
31015	E03	12766	90874	ZNF697	0.0059	1.0136
11015	F06	3217	26471	NUPR1	0.0059	1.0136
11024	C07	10122	149371	EXOC8	0.0059	1.0136
51021	B12	56660	79741	C10orf68	0.0059	1.0137
11076	A08	1655	23759	PPIL2	0.0059	1.0137
31042	E02	6120	6622	SNCA	0.0059	1.0137
11039	B04	8686	1756	DMD	0.0059	1.0138
11029	G03	3477	58516	FAM60A	0.0060	1.0139
11017	B01	6360	30834	ZNRD1	0.0060	1.0139
11076	G01	5768	6303	SAT1	0.0060	1.0139
11077	H03	1363	7556	ZNF10	0.0060	1.0139
11043	H10	6845	10591	C6orf108	0.0060	1.0139
11050	D10	175	29896	TRA2A	0.0061	1.0140
11051	C02	6197	896	CCND3	0.0061	1.0141
51033	C08	54765	388533	KRTDAP	0.0061	1.0141
51009	F08	52709	56098	PCDHGC4	0.0061	1.0142
31002	C02	10745	10352	WARS2	0.0061	1.0142
11044	C07	3029	4681	NBL1	0.0062	1.0143
11012	D09	2475	60313	GPBPIL1	0.0062	1.0143
31001	B09	10252	2332	FMR1	0.0062	1.0143
51004	A05	55326	51249	TMEM69	0.0062	1.0143
51034	E12	54664	339501	PRSS38	0.0062	1.0144
11086	E12	5928	51582	AZIN1	0.0062	1.0144

11012	D02	8197	1968	EIF2S3	0.0062	1.0144
11014	B11	641	55613	MTMR8	0.0062	1.0145
31029	E03	14353	51686	OAZ3	0.0062	1.0145
11015	H03	5756	23658	LSM5	0.0062	1.0145
31045	A04	9124	2316	FLNA	0.0062	1.0145
51006	E05	54692	57594	HOMEZ	0.0063	1.0145
31005	E06	10940	29883	CNOT7	0.0063	1.0145
51032	D01	53332	388335	TMEM220	0.0063	1.0145
51023	C07	56198	199713	NLRP7	0.0063	1.0146
51023	G06	54005	64005	MYO1G	0.0063	1.0146
51025	B04	56870	23279	NUP160	0.0063	1.0146
11004	D11	2358	10231	RCAN2	0.0063	1.0146
11050	E02	2006	167410	LIX1	0.0063	1.0146
51027	C09	55286	9546	APBA3	0.0063	1.0146
31041	E04	7248	89953	KLC4	0.0063	1.0147
31010	C07	11552	220108	FAM124A	0.0064	1.0147
31039	G09	350	NA	NA	0.0064	1.0148
31011	F10	12289	26099	C1orf144	0.0064	1.0148
11062	C07	9078	4967	OGDH	0.0064	1.0148
11077	A08	3939	10482	NXF1	0.0064	1.0149
31025	B10	14083	8359	HIST1H4A	0.0064	1.0149
31043	F06	7231	6693	SPN	0.0064	1.0149
11025	H10	2586	8467	SMARCA5	0.0064	1.0150
11067	E06	6784	114034	TOE1	0.0065	1.0150
11009	B04	7759	4704	NDUFA9	0.0065	1.0151
11047	H06	1092	3955	LFNG	0.0065	1.0151
31018	E08	12861	149563	C1orf64	0.0065	1.0151
11079	G02	2149	79048	SECISBP2	0.0065	1.0151
11017	A07	6556	81631	MAP1LC3B	0.0065	1.0151
31029	C03	14321	338328	GPIHBP1	0.0065	1.0152
31023	H09	13673	118738	ZNF488	0.0066	1.0152
51001	A03	54806	613211	DEFB134	0.0066	1.0152
31001	C10	10622	285622	NBPF22P	0.0066	1.0153
11073	H08	1896	84417	C2orf40	0.0066	1.0153
51029	H02	55663	6006	RHCE	0.0066	1.0154
11044	B04	581	114569	MAL2	0.0066	1.0154
31032	A04	14654	25802	LMOD1	0.0067	1.0155
31002	D06	10435	10316	NMUR1	0.0067	1.0155
11057	D12	8242	126526	C19orf47	0.0067	1.0155
51033	F11	53735	169355	IDO2	0.0067	1.0155
11085	G01	8965	1280	COL2A1	0.0067	1.0155
11037	E03	6422	51302	CYP39A1	0.0067	1.0156
31038	A04	14604	3605	IL17A	0.0067	1.0157
31039	H09	622	708	C1QBP	0.0068	1.0157

31038	F10	10244	10922	FASTK	0.0068	1.0157
11022	A11	3123	71	ACTG1	0.0068	1.0157
31040	F04	9197	219541	MED19	0.0068	1.0157
31041	F07	5221	55768	NGLY1	0.0068	1.0157
11074	G07	5118	5479	PPIB	0.0068	1.0158
51033	B07	54599	10911	UTS2	0.0068	1.0158
31006	C12	11021	90288	C3orf25	0.0068	1.0159
31044	A02	4833	7423	VEGFB	0.0069	1.0159
11052	D08	1052	27033	ZBTB32	0.0069	1.0159
11036	F10	2049	84944	MAEL	0.0069	1.0160
11001	G08	183	58493	C9orf80	0.0069	1.0160
11056	B01	4474	8416	ANXA9	0.0069	1.0160
11055	C03	9736	151306	GPBAR1	0.0069	1.0160
11035	C09	9885	79822	ARHGAP28	0.0069	1.0160
31044	A06	3424	81490	PTDSS2	0.0069	1.0161
11046	B04	1249	6014	RIT2	0.0070	1.0162
11070	H11	9868	10403	NDC80	0.0070	1.0162
11083	F12	2641	90273	CEACAM21	0.0070	1.0162
11051	A10	6440	7257	TSNAX	0.0070	1.0162
11069	D06	9967	11022	TDRKH	0.0070	1.0163
11051	F01	2531	121536	AEBP2	0.0070	1.0163
11005	F10	408	10099	TSPAN3	0.0070	1.0163
31041	H07	6835	57510	XPO5	0.0071	1.0164
51029	B01	56791	81030	ZBP1	0.0071	1.0164
31037	G02	12346	2006	ELN	0.0071	1.0164
31010	F10	11749	8906	AP1G2	0.0071	1.0164
51027	F08	55333	4335	MNT	0.0071	1.0165
11079	D06	6122	5822	PWP2	0.0071	1.0165
11013	B10	8139	64858	DCLRE1B	0.0071	1.0166
51021	D08	56381	2138	EYA1	0.0072	1.0166
51025	G02	56886	5469	MED1	0.0072	1.0166
11075	H10	8595	84280	BTBD10	0.0072	1.0167
11039	G06	2365	7844	RNF103	0.0072	1.0167
11001	F08	134	6347	CCL2	0.0072	1.0167
11071	H07	1378	84101	USP44	0.0072	1.0167
11057	D08	7286	112970	KTI12	0.0072	1.0167
31024	F09	13531	10420	TESK2	0.0073	1.0168
11066	H10	7052	115509	ZNF689	0.0073	1.0169
11007	A05	1207	151871	DPPA2	0.0073	1.0169
11056	D02	4719	54961	SSH3	0.0073	1.0169
11036	E12	1439	54682	MANSC1	0.0073	1.0169
51011	C03	52831	639	PRDM1	0.0073	1.0169
11030	C02	3653	7307	U2AF1	0.0073	1.0170
31045	D05	9509	2947	GSTM3	0.0073	1.0170

31007	D07	10898	55616	ASAP3	0.0073	1.0171
11019	A03	7020	90121	TSR2	0.0074	1.0171
11029	F09	3504	11030	RBPMS	0.0074	1.0171
31025	G07	13710	6744	SSFA2	0.0074	1.0171
11016	E08	5628	3630	INS	0.0074	1.0171
31010	A12	11721	54545	MTMR12	0.0074	1.0171
31001	G02	10553	64388	GREM2	0.0074	1.0171
31029	D04	14379	1797	DOM3Z	0.0074	1.0172
31001	E01	10554	23406	COTL1	0.0074	1.0172
51010	F10	54730	55521	TRIM36	0.0074	1.0173
51015	E09	52754	284185	C17orf55	0.0074	1.0173
11021	F10	3384	83787	ARMC10	0.0074	1.0173
11073	H05	3923	25906	C11orf51	0.0074	1.0173
11015	E10	6478	50854	C6orf48	0.0075	1.0173
11009	A11	5633	29922	NME7	0.0075	1.0173
51003	E04	52635	200132	TCTEX1D1	0.0075	1.0174
11036	D05	2375	10606	PAICS	0.0075	1.0174
11082	H09	1408	135927	C7orf34	0.0075	1.0175
31010	G06	11432	200958	MUC20	0.0075	1.0175
51022	G08	56171	166793	ZBTB49	0.0075	1.0175
11053	G01	4737	3705	ITPK1	0.0075	1.0175
11049	G10	587	51162	EGFL7	0.0075	1.0175
51006	H02	52813	284307	ZIK1	0.0076	1.0176
51005	B06	54602	343472	BARHL2	0.0076	1.0177
31019	H01	12847	84186	ZCCHC7	0.0076	1.0178
51030	D11	55379	55251	PCMTD2	0.0077	1.0178
31025	F11	14052	5948	RBP2	0.0077	1.0178
11053	C04	3846	26150	RIBC2	0.0077	1.0178
31041	H03	6501	129138	ANKRD54	0.0077	1.0179
11003	D11	9255	93190	C1orf158	0.0077	1.0179
31005	D10	11240	80830	APOL6	0.0077	1.0179
31044	F02	4936	3196	TLX2	0.0077	1.0179
11035	F07	8879	23450	SF3B3	0.0077	1.0179
51015	C10	52788	441273	SPDYE2	0.0077	1.0179
11073	F09	8938	84807	NFKBID	0.0077	1.0179
31026	H04	13825	158800	RHOXF1	0.0077	1.0179
11071	F11	7242	8833	GMPS	0.0077	1.0179
11066	B06	1429	6000	RGS7	0.0077	1.0180
51003	B07	56706	79647	AKIRIN1	0.0078	1.0180
11026	F01	508	57149	LYRM1	0.0078	1.0180
31030	F02	14302	23030	KDM4B	0.0078	1.0181
51001	D09	54700	414899	BLID	0.0078	1.0181
31045	C06	3491	5437	POLR2H	0.0078	1.0181
11022	H09	5376	80755	AARSD1	0.0078	1.0182

31011	G09	12183	84316	LSMD1	0.0078	1.0182
11070	C08	7850	10644	IGF2BP2	0.0079	1.0183
11077	C04	4182	54980	C2orf42	0.0079	1.0183
11002	D07	9685	57157	PHTF2	0.0079	1.0184
51003	F05	53113	3316	HSPB2	0.0079	1.0184
31012	F03	12243	5554	PRH1	0.0079	1.0184
11007	F06	4855	29086	C19orf62	0.0079	1.0184
11063	D08	8261	10948	STARD3	0.0079	1.0184
11019	F04	3638	11264	PXMP4	0.0079	1.0185
51003	F03	53098	348262	FAM195B	0.0079	1.0185
11029	C11	9287	127428	C1orf83	0.0080	1.0185
51008	C07	55128	83990	BRIP1	0.0080	1.0185
11022	E04	7767	90507	SCRN2	0.0080	1.0186
11019	B12	6460	6717	SRI	0.0080	1.0187
31022	C03	13502	8000	PSCA	0.0080	1.0187
11048	C09	2605	2001	ELF5	0.0080	1.0187
11038	D05	5946	59348	ZNF350	0.0080	1.0187
11034	B05	3658	51726	DNAJB11	0.0080	1.0187
11072	C02	8161	57182	ANKRD50	0.0081	1.0187
11072	G04	2182	1016	CDH18	0.0081	1.0187
51032	D03	55539	729533	FAM72A	0.0081	1.0188
11039	G03	1462	9899	SV2B	0.0081	1.0188
51002	D08	56443	100287569	NCRNA00173	0.0081	1.0188
11078	C01	7705	51517	NCKIPSD	0.0081	1.0188
11043	A06	4229	4149	MAX	0.0081	1.0188
51008	D07	55496	26166	RGS22	0.0081	1.0188
11048	A10	4436	81619	TSPAN14	0.0081	1.0188
31004	G02	10397	23255	KIAA0802	0.0081	1.0189
51025	G10	53326	4012	LNPEP	0.0081	1.0189
11079	C05	7153	55034	MOCOS	0.0082	1.0189
11073	G04	4794	885	CCK	0.0082	1.0190
11002	C07	10072	6210	RPS15A	0.0082	1.0190
11041	F07	8052	149708	WFDC5	0.0082	1.0190
11010	B11	5565	8564	KMO	0.0082	1.0190
11032	F10	9516	79805	VASH2	0.0082	1.0191
51008	C06	53185	55749	CCAR1	0.0082	1.0192
31034	C03	14883	54675	CRLS1	0.0083	1.0192
51021	C07	56393	126549	ANKLE1	0.0083	1.0192
31044	H06	5167	55210	ATAD3A	0.0083	1.0192
51006	F09	53270	2572	GAD2	0.0083	1.0192
11032	D07	9686	53340	SPA17	0.0083	1.0192
11051	A08	9386	284161	GDPD1	0.0083	1.0193
11087	H01	1689	27250	PDCD4	0.0083	1.0193
31006	C05	11302	55062	WIPI1	0.0083	1.0193

11020	C11	3515	150274	HSCB	0.0083	1.0193
11059	A05	10198	150465	TTL	0.0083	1.0193
31017	C01	12431	55147	RBM23	0.0083	1.0193
11019	C10	7763	9367	RAB9A	0.0083	1.0193
11051	E06	2877	5995	RGR	0.0083	1.0194
51028	H07	55659	8786	RGS11	0.0083	1.0194
11061	A10	9643	6996	TDG	0.0084	1.0194
11056	E09	7330	51006	SLC35C2	0.0084	1.0194
31010	H11	11500	4939	OAS2	0.0084	1.0195
51027	B09	55552	2166	FAAH	0.0084	1.0195
51030	D02	55471	10587	TXNRD2	0.0084	1.0196
31042	D06	6023	10541	ANP32B	0.0084	1.0196
11048	D07	4197	54925	ZNF434	0.0084	1.0196
11002	A08	9570	254863	C17orf61	0.0084	1.0196
11007	F01	5470	10327	AKR1A1	0.0085	1.0197
51026	F11	53321	6397	SEC14L1	0.0085	1.0197
11075	H11	5652	400	ARL1	0.0085	1.0198
11080	G05	1749	84073	MYCBPAP	0.0086	1.0199
31044	C09	1695	91689	C22orf32	0.0086	1.0200
11003	G06	214	7072	TIA1	0.0086	1.0200
51024	G04	55199	3643	INSR	0.0086	1.0200
31014	E09	12197	2515	ADAM2	0.0086	1.0200
11015	D03	7548	171546	C14orf147	0.0086	1.0201
31004	C07	10814	126382	NR2C2AP	0.0086	1.0201
31038	H10	6809	51205	ACP6	0.0087	1.0202
51032	B02	56490	245938	DEFB125	0.0087	1.0202
11027	E10	3983	4259	MGST3	0.0087	1.0203
11006	A06	5252	5692	PSMB4	0.0087	1.0203
31007	D12	11458	2012	EMP1	0.0087	1.0203
51032	G10	55239	29100	TMEM208	0.0088	1.0204
11056	H11	2215	3670	ISL1	0.0088	1.0204
11043	E06	6588	11034	DSTN	0.0088	1.0205
11075	H06	2171	29887	SNX10	0.0088	1.0206
51034	B09	54961	253512	SLC25A30	0.0088	1.0206
31039	H06	8797	84939	MUM1	0.0089	1.0206
31022	E10	13750	54998	AURKAIP1	0.0089	1.0206
11052	E11	824	4223	MEOX2	0.0089	1.0207
31001	G05	10799	9021	SOCS3	0.0089	1.0207
11043	C04	9059	9522	SCAMP1	0.0089	1.0207
31008	B01	11595	84681	HINT2	0.0089	1.0208
11074	H10	1126	55281	TMEM140	0.0089	1.0208
51003	D04	54500	348801	LNP1	0.0090	1.0209
11071	A11	1757	6575	SLC20A2	0.0090	1.0209
31018	B12	12856	79663	HSPBAP1	0.0090	1.0209

51001	E04	52642	114038	C21orf84	0.0090	1.0210
11075	A02	1235	51440	HPCAL4	0.0090	1.0210
11005	E12	550	10653	SPINT2	0.0091	1.0211
11010	A01	6666	5605	MAP2K2	0.0091	1.0211
11079	G07	9398	23360	FNBP4	0.0091	1.0211
11074	F05	3828	64432	MRPS25	0.0091	1.0212
11001	A05	1789	27445	PCLO	0.0091	1.0212
11053	H01	5136	57016	AKR1B10	0.0092	1.0213
11062	F04	9647	92714	ARRDC1	0.0092	1.0213
31028	C12	14384	54556	ING3	0.0092	1.0213
11080	C02	7199	8437	RASAL1	0.0092	1.0214
31031	A05	14505	10094	ARPC3	0.0092	1.0214
51001	G08	54591	81606	LBH	0.0092	1.0214
11066	H04	692	7296	TXNRD1	0.0092	1.0215
11050	A08	1059	116039	OSR2	0.0093	1.0216
11028	G03	8486	114757	CYGB	0.0093	1.0216
11088	C01	9959	6156	RPL30	0.0093	1.0217
31005	D01	11034	192669	EIF2C3	0.0093	1.0217
31040	C01	1280	127281	C1orf93	0.0093	1.0217
11027	E01	9807	10060	ABCC9	0.0093	1.0217
11081	G10	8807	57787	MARK4	0.0093	1.0217
11027	B05	156	10438	C1D	0.0094	1.0218
11065	G09	6920	221960	C7orf28B	0.0094	1.0218
31024	B01	13373	10244	RABEPK	0.0094	1.0219
31043	H01	7112	114984	FLYWCH2	0.0094	1.0219
11077	G01	2594	8216	LZTR1	0.0094	1.0219
51030	F09	55354	84240	ZCCHC9	0.0094	1.0219
11087	F01	3151	10922	FASTK	0.0094	1.0220
51010	C12	53465	219972	MPEG1	0.0095	1.0220
11037	B03	8018	7283	TUBG1	0.0095	1.0220
51004	E02	54974	440087	C12orf69	0.0095	1.0221
11024	D08	3419	2131	EXT1	0.0095	1.0221
51028	A11	56479	149483	CCDC17	0.0095	1.0221
11051	B08	6186	51131	PHF11	0.0095	1.0221
11007	C05	6649	81926	FAM108A1	0.0095	1.0222
51013	A03	52829	57216	VANGL2	0.0095	1.0222
51010	D03	53831	56125	PCDHB11	0.0095	1.0222
51027	H06	55535	9441	MED26	0.0096	1.0222
11066	D04	521	85313	PPIL4	0.0096	1.0223
31006	E09	11008	5987	TRIM27	0.0096	1.0224
31005	H01	11047	92335	STRADA	0.0096	1.0224
11063	H02	4973	26003	GORASP2	0.0096	1.0224
31006	D12	11290	50507	NOX4	0.0096	1.0224
31024	E04	13451	23542	MAPK8IP2	0.0096	1.0224

11081	A10	6382	55090	MED9	0.0096	1.0225
51035	E03	55050	343263	MYBPHL	0.0097	1.0225
31011	H10	12164	116362	RBP7	0.0097	1.0225
11076	H10	3901	4595	MUTYH	0.0097	1.0225
11028	E04	6640	64792	RABL5	0.0097	1.0226
31018	F01	12913	27128	CYTH4	0.0097	1.0226
31036	B12	11912	2888	GRB14	0.0097	1.0227
31003	D04	10584	2983	GUCY1B3	0.0097	1.0227
51029	D11	55674	284904	SEC14L4	0.0097	1.0227
11058	G04	6696	79827	ASAM	0.0097	1.0227
11061	B07	2322	168417	ZNF679	0.0098	1.0227
11077	F06	1447	4534	MTM1	0.0098	1.0227
31024	C09	13592	3851	KRT4	0.0098	1.0228
11051	C12	1670	84365	MKI67IP	0.0098	1.0228
11004	F04	729	10148	EBI3	0.0098	1.0228
11050	H03	9381	10738	RFPL3	0.0098	1.0229
11013	C05	5441	22827	PUF60	0.0098	1.0229
11046	C08	6933	5864	RAB3A	0.0098	1.0229
11052	E02	2414	1774	DNASE1L1	0.0098	1.0229
11073	E06	8887	27131	SNX5	0.0098	1.0229
11061	B12	8045	79844	ZDHHC11	0.0098	1.0229
11077	A09	293	56001	NXF2	0.0098	1.0229
11056	H08	8398	2819	GPD1	0.0098	1.0229
11066	F12	1940	159163	RBMY1F	0.0099	1.0229
51031	E05	55585	2946	GSTM2	0.0099	1.0230
11067	F01	1539	206426	PIP5K1P1	0.0099	1.0231
51003	E11	53041	147650	NCRNA00085	0.0099	1.0231
31005	F09	11316	338872	C1QTNF9	0.0099	1.0232
51005	A03	54344	58511	DNASE2B	0.0100	1.0232
11015	D04	7787	9315	C5orf13	0.0100	1.0232
31032	E04	14569	2615	LRRC32	0.0100	1.0233
11004	D10	8591	28227	PPP2R3B	0.0100	1.0233
51006	C09	54223	3781	KCNN2	0.0100	1.0233
11080	C09	1715	55818	KDM3A	0.0100	1.0233
31043	G05	6446	51614	ERGIC3	0.0100	1.0234
11003	D02	5444	55245	UQCC	0.0100	1.0234
11073	F06	3783	5435	POLR2F	0.0100	1.0234
31041	C07	7184	6535	SLC6A8	0.0101	1.0234
11068	B08	5039	55278	QRSL1	0.0101	1.0234
31043	C05	6276	55742	PARVA	0.0101	1.0235
11040	H08	9060	1479	CSTF3	0.0101	1.0235
51024	H10	53601	5787	PTPRB	0.0101	1.0235
11084	F03	9623	114908	TMEM123	0.0102	1.0237
31011	C11	12369	116541	MRPL54	0.0102	1.0237

51014	G07	52817	653404	FOXD4L6	0.0102	1.0237
11088	H11	302	30827	CXXC1	0.0102	1.0237
31041	C05	7008	26090	ABHD12	0.0102	1.0238
11005	F03	2763	140462	ASB9	0.0102	1.0238
11062	F06	1453	221154	EFHA1	0.0102	1.0238
11077	A06	845	8732	RNGTT	0.0103	1.0239
11061	A11	1140	5274	SERPINI1	0.0103	1.0240
11005	F07	611	5621	PRNP	0.0103	1.0240
11075	B06	4539	54769	DIRAS2	0.0103	1.0240
31032	D04	14655	2130	EWSR1	0.0103	1.0241
31045	A09	3369	438	ASMT	0.0104	1.0242
11005	F02	8667	2729	GCLC	0.0104	1.0242
11050	A01	2814	91283	C9orf30	0.0104	1.0242
11040	C02	7553	171546	C14orf147	0.0104	1.0242
11018	A02	6328	4151	MB	0.0104	1.0243
11022	C09	7128	23237	ARC	0.0104	1.0243
51021	D07	56624	54901	CDKAL1	0.0104	1.0243
11062	C12	5800	5671	PSG3	0.0104	1.0243
11036	B10	6999	89891	WDR34	0.0104	1.0243
11060	E03	1958	1497	CTNS	0.0104	1.0243
11018	H07	7811	51237	MGC29506	0.0104	1.0243
31036	E02	10750	9772	KIAA0195	0.0104	1.0243
51024	G08	56227	547	KIF1A	0.0105	1.0244
11005	C08	650	26063	DECR2	0.0105	1.0244
11056	B07	358	1508	CTSB	0.0105	1.0244
11084	G08	7241	9093	DNAJA3	0.0105	1.0245
51032	A09	53299	400657	LOC400657	0.0105	1.0245
11013	D07	4905	8733	GPAA1	0.0105	1.0246
11085	C10	6450	8092	ALX1	0.0105	1.0246
11049	F02	857	8061	FOSL1	0.0105	1.0246
11047	F05	5558	55335	NIPSNAP3B	0.0106	1.0247
51028	D12	53300	390535	GOLGA8E	0.0106	1.0247
51027	A04	56220	255189	PLA2G4F	0.0106	1.0247
51028	B10	55569	5753	PTK6	0.0106	1.0247
51005	H01	53591	51666	ASB4	0.0107	1.0249
11058	F03	1512	57821	C1orf114	0.0107	1.0249
51027	G10	56842	29890	RBM15B	0.0107	1.0249
11075	A04	877	115761	ARL11	0.0107	1.0250
11041	E02	1036	118487	CHCHD1	0.0107	1.0250
11039	C07	5158	1936	EEF1D	0.0107	1.0250
11067	H06	9298	84254	CAMKK1	0.0108	1.0251
31007	B12	11339	144423	GLT1D1	0.0108	1.0251
11079	B08	2957	10940	POP1	0.0108	1.0251
31001	G06	10425	340481	ZDHHC21	0.0108	1.0252

51021	F10	55865	131377	KBTBD5	0.0108	1.0252
31041	C09	4699	9540	TP53I3	0.0108	1.0253
11046	A10	2589	55660	PRPF40A	0.0108	1.0253
31006	A11	11199	5746	PTH2R	0.0108	1.0253
11061	H02	8103	163154	PRR22	0.0109	1.0253
11014	H06	524	55209	SETD5	0.0109	1.0253
31015	C09	12804	89853	FAM125B	0.0109	1.0253
11019	B01	6092	10201	NME6	0.0109	1.0254
11063	H07	1692	57515	SERINC1	0.0109	1.0254
11071	A05	9676	222229	LRWD1	0.0109	1.0254
11020	F12	5699	25934	NIPSNAP3A	0.0109	1.0255
31007	H01	10947	9892	SNAP91	0.0109	1.0255
11019	G08	7473	2954	GSTZ1	0.0109	1.0255
51013	D08	54836	163479	FNDC7	0.0110	1.0256
11049	F10	6155	63898	SH2D4A	0.0110	1.0256
11014	H02	90	64857	PLEKHG2	0.0110	1.0256
31041	B01	6463	115992	RNF166	0.0110	1.0256
11017	A02	5692	91894	C11orf52	0.0110	1.0256
31016	F06	12812	64805	P2RY12	0.0110	1.0256
11017	D01	3328	27257	LSM1	0.0110	1.0257
11016	H07	5414	2355	FOSL2	0.0110	1.0258
51003	D08	54986	5119	CHMP1A	0.0111	1.0258
11015	D06	4704	6234	RPS28	0.0111	1.0258
51009	D10	53752	285966	FAM115C	0.0111	1.0259
11004	F12	721	7347	UCHL3	0.0111	1.0259
51030	A03	55411	64747	MFSD1	0.0111	1.0259
11002	E04	9937	9290	GPR55	0.0111	1.0259
51024	A07	56348	53905	DUOX1	0.0111	1.0260
31033	G06	14916	144363	LYRM5	0.0112	1.0260
11082	F01	2349	NA	NA	0.0112	1.0260
11042	B07	6978	55652	SLC48A1	0.0112	1.0261
11006	C01	7292	23760	PITPNB	0.0112	1.0261
11001	G11	463	2043	EPHA4	0.0112	1.0261
11017	D07	6951	6218	RPS17	0.0112	1.0261
11012	F03	6191	4204	MECP2	0.0112	1.0261
11054	E08	4430	10933	MORF4L1	0.0112	1.0261
31006	H11	11063	8444	DYRK3	0.0112	1.0261
51024	G01	53380	5924	RASGRF2	0.0112	1.0262
11016	B01	6354	3627	CXCL10	0.0113	1.0263
51034	A10	54682	84311	MRPL45	0.0113	1.0263
11054	B10	2837	91703	ACY3	0.0113	1.0263
51035	G02	53826	56970	ATXN7L3	0.0113	1.0263
31013	F10	12329	348995	NUP43	0.0113	1.0263
11077	B07	4629	5910	RAP1GDS1	0.0113	1.0264

31039	E12	2296	256130	TMEM196	0.0113	1.0264
11019	D07	7258	60490	PPCDC	0.0113	1.0264
11064	H06	7637	5199	CFP	0.0113	1.0264
11017	F07	9065	6504	SLAMF1	0.0113	1.0265
51003	F06	55583	11186	RASSF1	0.0113	1.0265
11076	F04	4892	991	CDC20	0.0114	1.0265
11085	A04	9851	23367	LARP1	0.0114	1.0265
11046	E02	3940	10280	SIGMAR1	0.0114	1.0267
51032	H11	54996	388182	FLJ42289	0.0114	1.0267
11016	D11	7737	119032	C10orf32	0.0115	1.0267
31040	H05	10200	9588	PRDX6	0.0115	1.0267
31004	D04	10357	55626	AMBRA1	0.0115	1.0268
51010	C06	54597	580	BARD1	0.0115	1.0268
31002	E06	10767	147111	NOTUM	0.0115	1.0268
11077	F11	4495	5598	MAPK7	0.0115	1.0269
11052	C09	5397	9987	HNRPDL	0.0116	1.0270
31015	E11	12729	79828	METTL8	0.0116	1.0270
11059	C11	3809	1848	DUSP6	0.0116	1.0271
11074	B02	1346	128653	C20orf141	0.0116	1.0271
51005	A11	54267	51091	SEPSECS	0.0116	1.0271
31002	A11	10350	5562	PRKAA1	0.0116	1.0271
31001	F09	10779	255488	RNF144B	0.0116	1.0271
11029	A10	3861	10124	ARL4A	0.0116	1.0271
31036	G11	12428	1455	CSNK1G2	0.0116	1.0271
51003	C02	52581	29989	OBP2B	0.0116	1.0272
11058	F07	6985	51244	C3orf19	0.0117	1.0272
11007	B01	7233	6811	STX5	0.0117	1.0272
51012	A10	54403	10781	ZNF266	0.0117	1.0272
51001	A02	52591	140851	MT1P3	0.0117	1.0272
11061	E03	4296	3185	HNRNPF	0.0117	1.0273
51011	D08	54539	148345	C1orf127	0.0117	1.0273
51026	D07	53336	441294	CTAGE9	0.0117	1.0274
51035	G09	53645	285268	ZNF621	0.0117	1.0274
51014	A11	52858	29906	ST8SIA5	0.0117	1.0274
11015	C01	5790	NA	NA	0.0117	1.0274
11009	D12	6522	116138	KLHDC3	0.0118	1.0274
51003	E03	52605	130120	REG3G	0.0118	1.0275
11074	H08	2439	375	ARF1	0.0118	1.0276
11073	F10	4189	51255	RNF181	0.0118	1.0276
11008	C11	951	4705	NDUFA10	0.0118	1.0277
11017	E06	6044	51248	PDZD11	0.0119	1.0277
51020	A06	56775	2700	GJA3	0.0119	1.0278
31033	C09	14893	23047	PDS5B	0.0119	1.0278
11052	D07	6467	5082	PDCL	0.0119	1.0279

31045	C02	5995	10574	CCT7	0.0120	1.0279
11002	E09	10006	83937	RASSF4	0.0120	1.0279
31044	A08	7771	10523	CHERP	0.0120	1.0281
31014	B09	11862	84978	FRMD5	0.0120	1.0281
11030	D02	4572	10555	AGPAT2	0.0120	1.0281
31042	G02	6322	29895	MYLPF	0.0120	1.0281
31008	F04	11651	64342	HS1BP3	0.0121	1.0281
11043	C06	6364	55101	ATP5SL	0.0121	1.0282
31008	D06	11591	124808	CCDC43	0.0121	1.0282
11030	F11	3473	474343	SPIN2B	0.0121	1.0283
11021	A02	7615	3115	HLA-DPB1	0.0121	1.0283
11043	B09	4939	527	ATP6V0C	0.0121	1.0283
11082	B05	9038	220	ALDH1A3	0.0122	1.0284
11005	D11	3069	8800	PEX11A	0.0122	1.0284
51012	A02	52827	115669	TTC6	0.0122	1.0284
11057	B12	323	84108	PCGF6	0.0122	1.0284
31001	H04	10580	128414	NKAIN4	0.0122	1.0284
51029	C03	56464	151987	PPP4R2	0.0122	1.0284
11027	D02	759	6038	RNASE4	0.0122	1.0285
11073	H09	8629	79738	BBS10	0.0122	1.0285
31038	D09	8003	79140	CCDC28B	0.0122	1.0285
11069	A07	2627	2799	GNS	0.0122	1.0286
11022	A02	7689	80318	GKAP1	0.0123	1.0286
11080	D05	9638	116496	FAM129A	0.0123	1.0286
11071	F03	10135	156	ADRBK1	0.0123	1.0287
51024	H08	55136	80309	SPHKAP	0.0123	1.0287
11062	G02	2939	5770	PTPN1	0.0123	1.0287
11018	H04	7155	84065	TMEM222	0.0123	1.0287
11035	A10	3341	1152	CKB	0.0123	1.0288
31021	F02	12900	6777	STAT5B	0.0123	1.0288
11007	D11	6915	51109	RDH11	0.0123	1.0288
31031	F02	14523	130074	FAM168B	0.0124	1.0289
11056	F12	1492	1993	ELAVL2	0.0124	1.0289
11028	D02	7462	55256	ADI1	0.0124	1.0290
11088	B02	9424	80122	YSK4	0.0124	1.0290
51032	A12	55289	554249	LOC554249	0.0124	1.0290
11055	H03	1204	3775	KCNK1	0.0124	1.0291
11027	C09	3434	23641	LDOC1	0.0124	1.0291
11009	F03	5349	4673	NAP1L1	0.0125	1.0291
11012	F04	5855	3059	HCLS1	0.0125	1.0291
11071	E01	10013	23038	WDTC1	0.0125	1.0292
31012	F12	12391	58477	SRPRB	0.0125	1.0292
51024	D11	56301	9703	KIAA0100	0.0125	1.0292
31014	A05	11923	7112	TMPO	0.0125	1.0292

31017	G05	12434	23397	NCAPH	0.0125	1.0293
31015	E09	12419	115098	CCDC124	0.0125	1.0293
51031	E12	55347	400629	TEX19	0.0126	1.0293
31017	F12	12882	28981	IFT81	0.0126	1.0294
11082	D11	9826	7032	TFF2	0.0126	1.0294
51003	A11	56435	401138	AMTN	0.0126	1.0294
11065	E06	7026	80325	ABTB1	0.0126	1.0294
11018	G03	6657	79706	PRKRIP1	0.0126	1.0295
51015	C03	52707	158866	ZDHC15	0.0126	1.0295
51003	B12	52741	83648	FAM167A	0.0126	1.0295
11078	A05	7709	4520	MTF1	0.0126	1.0295
11053	A11	1975	8851	CDK5R1	0.0126	1.0295
11053	E05	5904	8575	PRKRA	0.0126	1.0296
11016	E04	7549	2921	CXCL3	0.0127	1.0296
11071	C01	8383	23569	PADI4	0.0127	1.0296
11040	F08	7524	6613	SUMO2	0.0127	1.0296
31019	A10	13058	8650	NUMB	0.0127	1.0297
11056	B09	8044	171425	CLYBL	0.0127	1.0297
11013	C09	4452	7536	SF1	0.0127	1.0297
11077	G09	1669	1780	DYNC111	0.0127	1.0297
31010	D03	11816	7113	TMPRSS2	0.0127	1.0298
11035	E06	1351	414301	DDI1	0.0127	1.0298
11046	E05	2576	9144	SYNGR2	0.0128	1.0298
11004	F06	5754	91057	CCDC34	0.0128	1.0298
11053	C12	9741	79612	NAA16	0.0128	1.0299
11021	B02	5042	10772	SRSF10	0.0128	1.0299
11069	C07	8110	7920	BAT5	0.0128	1.0299
11013	H09	7433	55621	TRMT1	0.0128	1.0300
11083	G07	502	83998	REG4	0.0129	1.0301
11043	A08	5974	4637	MYL6	0.0129	1.0301
11040	F05	6385	6373	CXCL11	0.0129	1.0301
31025	B11	13801	56477	CCL28	0.0129	1.0301
11079	A08	10026	9754	STARD8	0.0129	1.0301
11066	H08	2158	57125	PLXDC1	0.0129	1.0301
31039	A09	863	80863	PRRT1	0.0129	1.0302
31018	D02	13119	8649	MAPKSP1	0.0129	1.0302
11012	B04	2687	435	ASL	0.0130	1.0303
11049	F01	3839	28959	TMEM176B	0.0130	1.0303
31005	C09	10858	158234	RG9MTD3	0.0130	1.0303
31037	H01	12292	8761	PABPC4	0.0130	1.0303
51021	G03	56632	353299	RGSL1	0.0130	1.0303
11085	G09	2671	134285	TMEM171	0.0130	1.0303
31027	A11	14223	55615	PRR5	0.0130	1.0303
11046	B03	10022	55676	SLC30A6	0.0130	1.0305

11009	A05	3072	51094	ADIPOR1	0.0130	1.0305
51032	G04	56658	84314	TMEM107	0.0130	1.0305
11066	C02	6844	54758	KLHDC4	0.0131	1.0305
11008	E09	608	60	ACTB	0.0131	1.0306
51005	D06	54012	6754	SSTR4	0.0131	1.0306
31028	H01	15022	23042	PDXDC1	0.0131	1.0306
31028	B08	14152	10351	ABCA8	0.0131	1.0307
11075	H07	4358	83707	TRPT1	0.0131	1.0307
11053	E11	4548	51368	TEX264	0.0131	1.0307
11026	D12	3	10282	BET1	0.0132	1.0308
51023	F01	56200	159686	CCDC147	0.0132	1.0308
31040	F03	10098	NA	NA	0.0132	1.0309
11084	C10	4811	51308	REEP2	0.0132	1.0309
11060	F01	8135	11278	KLF12	0.0132	1.0309
31004	H01	10399	261734	NPHP4	0.0132	1.0309
11056	C08	3050	59277	NTN4	0.0132	1.0309
11063	A04	9917	10875	FGL2	0.0132	1.0309
31042	A06	6697	NA	NA	0.0132	1.0310
11022	C10	7577	5270	SERPINE2	0.0133	1.0310
11076	A01	5923	23421	ITGB3BP	0.0133	1.0310
11028	E03	3317	2739	GLO1	0.0133	1.0311
11054	B06	5925	9191	DEDD	0.0133	1.0311
31034	G02	14846	79368	FCRL2	0.0133	1.0311
11052	D03	6744	788	SLC25A20	0.0133	1.0312
11005	E07	1276	7102	TSPAN7	0.0133	1.0312
11003	A02	8395	912	CD1D	0.0133	1.0312
11012	G04	6134	84705	GTPBP3	0.0134	1.0312
31037	F07	13745	201294	UNC13D	0.0134	1.0313
51021	E08	55837	9058	SLC13A2	0.0134	1.0314
11059	H09	7758	6318	SERPINB4	0.0134	1.0314
11045	A02	6680	637	BID	0.0134	1.0314
11047	B10	4327	5721	PSME2	0.0135	1.0315
11012	A12	4011	7756	ZNF207	0.0135	1.0315
11017	G07	6116	55052	MRPL20	0.0135	1.0315
51024	E08	55165	5286	PIK3C2A	0.0135	1.0315
11030	E02	6743	3958	LGALS3	0.0135	1.0316
11015	B01	5429	84847	MGC16075	0.0135	1.0316
31017	H06	12490	85302	FBF1	0.0135	1.0316
51034	C04	53774	786	CACNG1	0.0135	1.0316
51025	F02	53273	51735	RAPGEF6	0.0135	1.0317
11048	G08	271	124995	MRPL10	0.0136	1.0317
11062	B03	9330	146434	ZNF597	0.0136	1.0317
11081	D07	6393	10063	COX17	0.0136	1.0317
51001	F02	53110	440419	LOC440419	0.0136	1.0317

31012	D11	12111	6856	SYPL1	0.0136	1.0318
11032	D06	9449	81030	ZBP1	0.0136	1.0318
11019	C04	6816	8407	TAGLN2	0.0136	1.0318
11011	F10	707	58472	SQRDL	0.0136	1.0319
31018	F08	13071	9936	CD302	0.0137	1.0319
31030	A09	14285	27300	ZNF544	0.0137	1.0320
51035	G05	53965	6598	SMARCB1	0.0137	1.0320
11002	C01	9958	5015	OTX2	0.0137	1.0321
51029	D08	56553	5161	PDHA2	0.0137	1.0321
51024	G11	55219	7011	TEP1	0.0137	1.0322
51032	A01	56899	440603	BCL2L15	0.0138	1.0322
11022	F10	7828	64840	PORCN	0.0138	1.0322
11084	B12	3135	3028	HSD17B10	0.0138	1.0323
11066	E06	1068	79745	CLIP4	0.0138	1.0324
51030	A06	56505	8383	OR1A1	0.0139	1.0324
51031	F02	56561	375612	LHFPL3	0.0139	1.0324
11066	B02	8365	80022	MYO15B	0.0139	1.0325
51011	D04	53906	147686	ZNF418	0.0139	1.0325
51010	H06	52963	374308	PTCHD3	0.0139	1.0325
11067	E04	4522	2119	ETV5	0.0139	1.0326
51031	D07	53345	346157	ZNF391	0.0140	1.0327
11070	C06	9756	150209	AIFM3	0.0140	1.0327
51001	C04	54859	245934	DEFB121	0.0140	1.0327
11028	G11	3729	65003	MRPL11	0.0140	1.0327
31039	A05	687	3576	IL8	0.0140	1.0327
11013	C02	2417	250	ALPP	0.0140	1.0328
11086	B11	1330	6695	SPOCK1	0.0140	1.0328
11001	E10	2693	6286	S100P	0.0140	1.0328
11067	F11	9484	9057	SLC7A6	0.0140	1.0328
51022	D09	56056	27291	C10orf28	0.0140	1.0329
31029	A11	14355	5032	P2RY11	0.0140	1.0329
31015	G04	12515	122769	PPIL5	0.0141	1.0329
11050	F08	6162	55204	GOLPH3L	0.0141	1.0329
11013	C04	2726	29781	NCAPH2	0.0141	1.0329
51003	H08	52953	85352	KIAA1644	0.0141	1.0331
11053	G04	4734	84292	WDR83	0.0141	1.0331
51006	H11	54024	7161	TP73	0.0142	1.0332
11069	E03	8727	26098	C10orf137	0.0142	1.0332
11077	G06	1552	153745	FAM71B	0.0142	1.0332
31044	F04	4630	91304	C19orf6	0.0142	1.0333
11068	G08	7114	686	BTD	0.0142	1.0333
31026	E11	13881	50838	TAS2R13	0.0142	1.0333
11032	H05	10210	134637	ADAT2	0.0142	1.0333
11045	B05	8638	5330	PLCB2	0.0142	1.0333

11072	C04	2468	23321	TRIM2	0.0143	1.0334
11018	E03	7627	2275	FHL3	0.0143	1.0334
11030	G04	9718	83692	CD99L2	0.0143	1.0335
11002	F04	10177	8468	FKBP6	0.0143	1.0335
31005	D02	10821	283385	MORN3	0.0143	1.0335
11089	H04	1077	1478	CSTF2	0.0143	1.0335
31039	C06	2769	55856	ACOT13	0.0143	1.0335
11038	D02	5809	3838	KPNA2	0.0143	1.0335
11056	E12	3233	55577	NAGK	0.0143	1.0336
11019	B11	6449	8835	SOCS2	0.0144	1.0336
51002	C05	52601	3640	INSL3	0.0144	1.0336
51006	E08	54426	84914	ZNF587	0.0144	1.0337
51032	B10	55991	338588	LOC338588	0.0144	1.0338
11040	C12	5318	10432	RBM14	0.0145	1.0338
11085	C03	6761	873	CBR1	0.0145	1.0339
11013	F09	8317	174	AFP	0.0145	1.0339
11001	E02	2788	6277	S100A6	0.0145	1.0339
11037	C07	2621	285753	C6orf182	0.0145	1.0340
31039	H10	3249	55526	DHTKD1	0.0145	1.0340
11005	D02	257	65264	UBE2Z	0.0145	1.0340
31011	D03	11693	10507	SEMA4D	0.0145	1.0341
11061	F09	2840	57180	ACTR3B	0.0146	1.0341
11046	F10	987	50808	AK3	0.0146	1.0342
11030	B07	7967	10400	PEMT	0.0146	1.0342
11035	C02	3265	7260	TSSC1	0.0146	1.0342
31004	E12	11024	205	AK4	0.0146	1.0342
31019	H09	13010	149628	PYHIN1	0.0146	1.0343
11049	H04	1078	5090	PBX3	0.0146	1.0343
11003	E07	5535	51397	COMMD10	0.0147	1.0343
11020	G08	4980	83596	BCL2L12	0.0147	1.0344
11013	E06	6518	57038	RARS2	0.0147	1.0344
31002	D01	10598	387893	SETD8	0.0147	1.0344
11003	D06	5935	5880	RAC2	0.0147	1.0344
11004	H06	122	9482	STX8	0.0147	1.0345
11028	F03	5399	6757	SSX2	0.0147	1.0345
11029	D07	3471	1366	CLDN7	0.0147	1.0345
51031	E08	55553	387856	C12orf68	0.0147	1.0345
11053	B08	5155	9524	TECR	0.0147	1.0345
51029	C01	53248	957	ENTPD5	0.0148	1.0346
11084	D09	9373	131540	ZDHHC19	0.0148	1.0346
11074	A11	4051	1845	DUSP3	0.0148	1.0346
11077	F10	4851	25913	POT1	0.0148	1.0346
11055	A01	8584	2874	GPS2	0.0148	1.0346
11085	G11	2491	2597	GAPDH	0.0148	1.0346

11020	B08	5056	85016	C11orf70	0.0148	1.0347
11074	E06	5456	51510	CHMP5	0.0148	1.0347
51008	G07	55016	9745	ZNF536	0.0148	1.0347
31044	D02	4230	80758	PRR7	0.0148	1.0347
51014	F09	53002	285429	DCAF4L1	0.0148	1.0348
11058	H03	3850	79230	ZNF557	0.0148	1.0348
11051	B04	3063	360	AQP3	0.0149	1.0348
31038	E03	14581	8968	HIST1H3F	0.0149	1.0348
51001	D03	53561	475	ATOX1	0.0149	1.0349
31004	B10	11151	28566	TRBV21-1	0.0149	1.0349
51023	E02	56696	57473	ZNF512B	0.0149	1.0349
11057	D07	6826	56941	C3orf37	0.0149	1.0349
11077	E09	2377	3936	LCP1	0.0149	1.0350
11002	H09	9369	23144	ZC3H3	0.0149	1.0350
11042	D08	4124	1058	CENPA	0.0149	1.0350
31016	H10	12754	91687	CENPL	0.0150	1.0350
11013	B04	6854	7464	CORO2A	0.0150	1.0351
51018	A10	55947	9350	CER1	0.0150	1.0351
11082	D08	3106	131118	DNAJC19	0.0150	1.0352
11009	E05	5297	7286	TUFT1	0.0150	1.0352
11022	C01	7832	57565	KLHL14	0.0150	1.0352
31028	A04	14174	1327	COX4I1	0.0150	1.0352
11077	B08	1631	146845	WDR16	0.0150	1.0352
11062	C02	8121	51447	IP6K2	0.0150	1.0352
51024	B05	55166	29028	ATAD2	0.0150	1.0353
51005	C02	53702	161291	TMEM30B	0.0151	1.0353
51026	A09	56821	4224	MEP1A	0.0151	1.0354
31021	A12	12934	6540	SLC6A13	0.0151	1.0354
31004	E06	11005	404220	C6orf201	0.0151	1.0354
11008	B11	684	468	ATF4	0.0152	1.0355
11056	B04	1638	93587	RG9MTD2	0.0152	1.0355
11006	D04	4827	244	ANXA8L2	0.0152	1.0356
31022	F09	13682	11163	NUDT4	0.0152	1.0356
31044	D05	3610	1113	CHGA	0.0152	1.0356
51001	F08	52798	284573	C1orf157	0.0152	1.0357
11021	C11	5111	3112	HLA-DOB	0.0152	1.0357
31019	C11	13066	8228	PNPLA4	0.0153	1.0357
11052	G09	2833	55812	SPATA7	0.0153	1.0358
11003	B11	5508	9521	EEF1E1	0.0153	1.0358
11018	C12	6329	1073	CFL2	0.0153	1.0358
31036	F11	12645	65125	WNK1	0.0153	1.0358
31003	D10	10466	55669	MFN1	0.0153	1.0359
31006	F11	11068	92689	FAM114A1	0.0154	1.0360
11011	F05	4804	5127	CDK16	0.0154	1.0360

11002	B12	9768	125113	KRT222	0.0154	1.0360
11017	H02	6103	51142	CHCHD2	0.0154	1.0360
31039	B08	618	3315	HSPB1	0.0154	1.0360
11041	D04	1277	26749	GAGE2E	0.0154	1.0361
51026	A05	56420	30817	EMR2	0.0154	1.0361
11070	B02	7844	2870	GRK6	0.0154	1.0361
11071	F05	8238	25780	RASGRP3	0.0154	1.0361
51028	G02	55264	7568	ZNF20	0.0154	1.0361
11041	E05	6003	6923	TCEB2	0.0154	1.0361
11027	B08	5372	10907	TXNL4A	0.0154	1.0361
51013	B03	53568	154197	PNLDC1	0.0154	1.0362
11052	A09	5879	50848	F11R	0.0155	1.0362
11039	F08	2546	23117	NPIPL3	0.0155	1.0362
11057	H02	10160	3579	CXCR2	0.0155	1.0363
51014	C04	54238	93233	CCDC114	0.0155	1.0363
11052	D12	1694	2775	GNAO1	0.0155	1.0364
11013	B08	1295	130951	C2orf65	0.0155	1.0364
11061	F06	7210	7775	ZNF232	0.0155	1.0365
11016	A08	5619	1678	TIMM8A	0.0155	1.0365
11076	H08	1100	115209	OMA1	0.0156	1.0365
51003	F10	52593	338376	IFNE	0.0156	1.0365
31039	E09	1127	80219	COQ10B	0.0156	1.0365
11002	E11	8259	285600	C5orf36	0.0156	1.0366
11069	C08	8479	27132	CPNE7	0.0156	1.0367
51027	B12	55457	9627	SNCAIP	0.0157	1.0367
11081	A04	6416	3347	HTN3	0.0157	1.0367
51025	C08	56926	146183	OTOA	0.0157	1.0368
11057	B03	8332	9170	LPAR2	0.0157	1.0368
11086	B12	4053	84617	TUBB6	0.0157	1.0368
11020	E08	5276	10103	TSPAN1	0.0157	1.0369
11007	C03	1089	5516	PPP2CB	0.0157	1.0369
11081	F11	5354	83606	C22orf13	0.0157	1.0369
11026	F03	597	92359	CRB3	0.0158	1.0369
51033	D10	53575	150538	FLJ32063	0.0158	1.0369
11012	E09	8391	24138	IFIT5	0.0158	1.0370
31021	D05	13269	23029	RBM34	0.0158	1.0370
31040	B09	10169	158787	RIBC1	0.0158	1.0370
31037	G01	12098	4867	NPHP1	0.0158	1.0370
51008	G11	55171	23469	PHF3	0.0158	1.0371
11025	C08	10036	23327	NEDD4L	0.0158	1.0372
51029	H08	55296	2339	FNTA	0.0159	1.0372
11018	A12	6745	8905	AP1S2	0.0159	1.0372
11041	H04	8703	5802	PTPRS	0.0159	1.0372
11075	B01	4506	347	APOD	0.0159	1.0373

11008	H09	6307	51601	LIPT1	0.0159	1.0373
11006	E07	66	6607	SMN2	0.0159	1.0374
11047	F04	5427	8741	TNFSF13	0.0159	1.0374
51030	F02	53391	121643	FOXN4	0.0159	1.0374
51020	F07	55843	8808	IL1RL2	0.0160	1.0374
11030	B08	58	6432	SRSF7	0.0160	1.0375
31021	A05	12968	9476	NAPSA	0.0160	1.0375
11082	D03	5383	28955	DEXI	0.0160	1.0375
51016	A04	56110	7116	TMSB4XP2	0.0160	1.0375
11030	B02	4739	7083	TK1	0.0160	1.0375
11081	C12	4073	6232	RPS27	0.0160	1.0375
11016	A02	5964	6271	S100A1	0.0160	1.0376
31045	G01	2917	10817	FRS3	0.0160	1.0376
11047	C03	9799	57509	MTUS1	0.0160	1.0376
11059	F11	9702	5064	PALM	0.0161	1.0377
11006	B03	5365	10785	WDR4	0.0161	1.0378
31033	D04	14750	222962	SLC29A4	0.0162	1.0380
11016	B06	9062	10159	ATP6AP2	0.0162	1.0380
31034	D04	14981	158160	HSD17B7P2	0.0162	1.0381
11016	E07	6321	10563	CXCL13	0.0162	1.0381
11087	D02	3578	1717	DHCR7	0.0162	1.0381
11005	E03	801	7532	YWHAG	0.0162	1.0381
11004	B08	1804	23386	NUCD3	0.0162	1.0381
11058	C05	2784	78997	GDAP1L1	0.0162	1.0381
51020	F01	55798	10052	GJC1	0.0162	1.0381
11066	C06	9758	91452	ACBD5	0.0163	1.0381
11068	B02	10066	10492	SYNCRIP	0.0163	1.0382
11075	G11	4498	11014	KDELR2	0.0163	1.0383
11070	E01	10054	4048	LTA4H	0.0163	1.0383
11059	A08	5001	4690	NCK1	0.0163	1.0383
11074	F02	2260	203562	TMEM31	0.0163	1.0383
11010	F04	928	55696	RBM22	0.0164	1.0384
31024	F05	13489	93100	NAPRT1	0.0164	1.0384
11009	E01	5607	5706	PSMC6	0.0164	1.0384
31008	E10	11389	51285	RASL12	0.0164	1.0384
51008	A07	55215	182	JAG1	0.0164	1.0384
11004	G05	2680	54941	RNF125	0.0164	1.0385
31016	A03	12432	10736	SIX2	0.0164	1.0385
11007	B10	1213	8851	CDK5R1	0.0164	1.0385
11075	A07	4270	6876	TAGLN	0.0164	1.0385
51011	G06	54874	9108	MTMR7	0.0165	1.0386
31017	A05	13239	8671	SLC4A4	0.0165	1.0386
31010	G11	11514	8309	ACOX2	0.0165	1.0386
31039	A07	1189	57213	C13orf1	0.0165	1.0386

31025	E05	13744	114881	OSBPL7	0.0165	1.0386
11037	A12	3708	51283	BFAR	0.0165	1.0387
31014	G06	11851	1196	CLK2	0.0165	1.0387
51002	C01	52566	24150	TP53TG3	0.0165	1.0387
11052	E10	280	840	CASP7	0.0165	1.0388
51031	D11	55329	84513	PPAPDC1B	0.0165	1.0388
31034	D09	14887	79618	HMBOX1	0.0165	1.0388
11013	F10	862	5859	QARS	0.0165	1.0388
51021	G01	56797	83417	FCRL4	0.0165	1.0388
31004	H04	11182	170712	COX7B2	0.0165	1.0388
11021	E01	3810	10695	CNPY3	0.0166	1.0389
31041	B02	7646	79165	LENG1	0.0166	1.0389
51023	E10	54916	4606	MYBPC2	0.0166	1.0389
11002	F09	9416	22949	PTGR1	0.0166	1.0390
51029	B08	55677	83849	SYT15	0.0166	1.0390
11086	E09	8598	23001	WDFY3	0.0166	1.0390
51015	G11	52910	349136	WDR86	0.0166	1.0390
11082	F04	3615	3150	HMGNI	0.0166	1.0390
11028	C02	451	79002	C19orf43	0.0166	1.0390
31010	F07	11726	64506	CPEB1	0.0166	1.0391
51035	C06	53526	1960	EGR3	0.0167	1.0391
31012	A09	12004	255252	LRRC57	0.0167	1.0391
11008	H01	2736	1025	CDK9	0.0167	1.0391
11072	F10	1574	203102	ADAM32	0.0167	1.0391
11069	D01	9869	149499	C1orf92	0.0167	1.0392
51032	D09	55342	90737	PAGE5	0.0167	1.0393
11053	G03	2166	54810	GIPC2	0.0168	1.0393
11058	F09	5927	1271	CNTFR	0.0168	1.0394
11028	B10	9847	84316	LSMD1	0.0168	1.0394
31005	D04	11163	145282	MIPOL1	0.0168	1.0394
11010	F03	7923	2184	FAH	0.0168	1.0394
31033	C04	14681	526	ATP6V1B2	0.0168	1.0394
51005	G05	54518	1486	CTBS	0.0168	1.0395
31037	G06	14015	5563	PRKAA2	0.0169	1.0396
31021	F12	13457	388558	ZNF808	0.0169	1.0396
11008	C04	777	53947	A4GALT	0.0169	1.0397
11074	B10	4866	84529	C15orf41	0.0169	1.0397
51003	G11	52742	254773	LYG2	0.0169	1.0398
31029	H03	14318	65055	REEP1	0.0170	1.0398
11081	A08	8838	78990	OTUB2	0.0170	1.0399
11011	A06	4989	1983	EIF5	0.0170	1.0399
51015	C04	52887	3965	LGALS9	0.0170	1.0400
11004	F02	8058	84271	POLDIP3	0.0170	1.0400
51031	H09	55764	90655	TGIF2LY	0.0170	1.0400

31004	B03	10319	26091	HERC4	0.0170	1.0400
51006	F01	54631	343068	PRAMEF5	0.0171	1.0401
51013	B08	527	51271	UBAP1	0.0171	1.0401
31009	E12	11407	2120	ETV6	0.0171	1.0401
11087	F05	7119	6714	SRC	0.0171	1.0401
51011	B03	54160	221074	SLC39A12	0.0171	1.0401
11051	B12	5031	7549	ZNF2	0.0171	1.0402
51030	E05	56935	401551	WDR38	0.0171	1.0402
11024	G07	10199	56121	PCDHB15	0.0171	1.0402
11058	A09	9996	5936	RBM4	0.0171	1.0402
11058	B06	4871	7286	TUFT1	0.0171	1.0403
51035	B08	53659	838	CASP5	0.0171	1.0403
51013	G06	53765	84735	CNDP1	0.0172	1.0403
31032	E02	14606	1551	CYP3A7	0.0172	1.0403
11029	H08	10123	257194	NEGR1	0.0172	1.0404
11019	E02	7821	57106	NAT14	0.0172	1.0404
51025	D07	55339	23239	PHLPP1	0.0172	1.0404
31013	A08	12384	29767	TMOD2	0.0172	1.0404
11070	G05	9844	7016	TESK1	0.0172	1.0404
11029	C12	3149	1397	CRIP2	0.0172	1.0405
51034	E04	54356	11159	RABL2A	0.0172	1.0405
51034	H09	55073	125061	AFMID	0.0173	1.0405
11050	C10	583	5510	PPP1R7	0.0173	1.0406
31003	G08	10636	2180	ACSL1	0.0173	1.0406
11061	C05	9971	9046	DOK2	0.0173	1.0406
11027	A08	3694	55629	PNRC2	0.0173	1.0406
51035	H02	54742	7066	THPO	0.0173	1.0406
11016	E01	3776	4725	NDUFS5	0.0173	1.0407
51028	C02	56878	11320	MGAT4A	0.0173	1.0407
51006	G10	54799	133060	OTOP1	0.0173	1.0407
31002	G01	10443	2781	GNAZ	0.0173	1.0407
11022	C05	7218	64795	RMND5A	0.0173	1.0407
11022	E02	7657	25809	TTLL1	0.0173	1.0407
11068	C02	10025	51602	NOP58	0.0174	1.0408
11020	G01	5547	5000	ORC4L	0.0174	1.0409
11080	F11	6615	23223	RRP12	0.0174	1.0409
31006	A10	11242	347730	LRRTM1	0.0174	1.0409
11027	A02	232	3021	H3F3B	0.0174	1.0409
11076	B11	4206	64852	TUT1	0.0174	1.0409
11076	A03	4432	55684	C9orf86	0.0174	1.0409
51005	D11	53789	9413	FAM189A2	0.0174	1.0409
51003	E02	56780	7697	ZNF138	0.0174	1.0410
11043	B06	5687	57456	KIAA1143	0.0174	1.0410
31045	H02	2759	54872	PIGG	0.0175	1.0411

11047	H03	4834	84311	MRPL45	0.0175	1.0411
51009	E01	52869	10699	CORIN	0.0175	1.0411
11050	G10	5926	3162	HMOX1	0.0175	1.0412
11004	C12	8132	4189	DNAJB9	0.0175	1.0412
51010	B09	53053	54535	CCHCR1	0.0175	1.0412
11004	G06	2048	143684	FAM76B	0.0175	1.0412
11018	B01	5164	6205	RPS11	0.0176	1.0412
11005	F01	8702	133688	UGT3A1	0.0176	1.0413
31041	B04	6927	64110	MAGEF1	0.0176	1.0414
11010	A02	3596	1431	CS	0.0177	1.0416
31019	A01	12868	7325	UBE2E2	0.0177	1.0416
31008	C02	11534	3574	IL7	0.0177	1.0416
51013	A05	53941	10524	KAT5	0.0178	1.0417
11016	F05	4696	8933	FAM127A	0.0178	1.0418
11011	F04	5408	55603	FAM46A	0.0178	1.0418
11007	C11	8459	443	ASPA	0.0178	1.0418
11015	E03	8874	58516	FAM60A	0.0178	1.0419
11025	B05	9463	27032	ATP2C1	0.0178	1.0419
11010	H05	7701	10494	STK25	0.0178	1.0419
31003	A10	10501	6867	TACC1	0.0178	1.0419
11060	G01	5037	84302	C9orf125	0.0179	1.0420
11042	B03	1530	89882	TPD52L3	0.0179	1.0421
11001	H07	354	142937	LOC142937	0.0179	1.0421
11085	E05	6085	64400	AKTIP	0.0179	1.0422
11067	C11	1423	4675	NAPIL3	0.0180	1.0422
51030	H11	55463	124093	CCDC78	0.0180	1.0423
11022	A03	7223	1731	SEPT1	0.0180	1.0423
31032	E11	14682	1594	CYP27B1	0.0180	1.0423
11088	B06	9395	93426	SYCE1	0.0180	1.0423
51030	B03	56466	80167	C4orf29	0.0180	1.0423
11054	E05	7354	79751	SLC25A22	0.0180	1.0423
31007	D11	11484	122553	TRAPPC6B	0.0181	1.0425
11027	B03	7440	10248	POP7	0.0181	1.0425
11018	H11	7645	90861	HN1L	0.0181	1.0426
11053	C02	1816	4331	MNAT1	0.0181	1.0426
11048	A07	124	112858	TP53RK	0.0181	1.0426
11011	F01	6201	26271	FBXO5	0.0181	1.0426
51034	B08	54555	9491	PSMF1	0.0181	1.0426
11008	A04	3602	10067	SCAMP3	0.0181	1.0427
11001	D12	541	28971	C11orf67	0.0182	1.0427
11063	F11	9970	85007	AGXT2L2	0.0182	1.0427
11022	D03	7137	26528	DAZAP1	0.0182	1.0427
11050	C12	2952	55172	C14orf104	0.0182	1.0427
51035	A06	55010	79815	NIPAL2	0.0182	1.0428

11002	B04	9233	9607	CARTPT	0.0182	1.0428
11055	H02	9592	85329	LGALS12	0.0182	1.0428
31043	C04	6141	79084	WDR77	0.0182	1.0428
11057	E06	2883	9486	CHST10	0.0182	1.0428
11080	F07	10190	7075	TIE1	0.0182	1.0429
11078	D04	7005	51586	MED15	0.0183	1.0430
11004	G04	149	54541	DDIT4	0.0183	1.0430
11022	A08	7695	282974	STK32C	0.0183	1.0431
31038	F07	9464	29851	ICOS	0.0183	1.0431
51014	D02	52787	166655	TRIM60	0.0184	1.0432
51001	A06	54931	284297	SSC5D	0.0184	1.0432
31013	E03	11869	57699	CPNE5	0.0184	1.0432
11030	C05	3290	9446	GSTO1	0.0184	1.0432
11005	F04	2061	6619	SNAPC3	0.0184	1.0432
51033	G01	55487	441212	RP9P	0.0184	1.0433
11008	B01	286	51099	ABHD5	0.0184	1.0433
11010	C09	633	7551	ZNF3	0.0184	1.0433
11075	C05	4493	10652	YKT6	0.0184	1.0434
11015	A07	7742	492311	C5orf53	0.0184	1.0434
11069	H07	2958	10443	N4BP2L2	0.0185	1.0434
11007	C12	313	115817	DHRS1	0.0185	1.0434
11027	B06	4690	4088	SMAD3	0.0185	1.0435
11070	F04	9468	3718	JAK3	0.0185	1.0435
11047	E12	4525	29883	CNOT7	0.0185	1.0435
11045	H03	811	10459	MAD2L2	0.0185	1.0435
11066	F02	2500	7988	ZNF212	0.0185	1.0435
11004	H11	8827	23265	EXOC7	0.0185	1.0436
51008	F12	53079	4940	OAS3	0.0185	1.0436
51002	E05	55021	440905	LOC440905	0.0185	1.0436
11026	A08	2847	2793	GNGT2	0.0186	1.0437
51002	G10	52610	27179	IL1F6	0.0186	1.0438
11061	B06	1517	54665	RSBN1	0.0186	1.0438
11079	B03	7464	11100	HNRNPUL1	0.0186	1.0438
51014	C03	52749	92949	ADAMTSL1	0.0187	1.0439
51002	C11	52562	6037	RNASE3	0.0187	1.0439
11078	F05	6503	7373	COL14A1	0.0187	1.0440
51013	A08	52900	342184	FMN1	0.0187	1.0440
51017	A03	56730	342898	SYCN	0.0187	1.0440
11071	H06	2521	10059	DNM1L	0.0187	1.0441
51029	H11	55690	55048	VPS37C	0.0188	1.0441
31015	F03	12774	8351	HIST1H3D	0.0188	1.0442
31044	F03	5109	3725	JUN	0.0188	1.0442
31038	D10	7560	7572	ZNF24	0.0188	1.0442
11055	A10	8460	285533	RNF175	0.0188	1.0442

11085	G08	3703	79228	THOC6	0.0188	1.0442
11053	H10	322	6175	RPLP0	0.0188	1.0442
11015	A12	5388	26521	TIMM8B	0.0188	1.0443
11049	B05	4322	79650	C16orf57	0.0188	1.0443
11083	E08	10083	9841	ZBTB24	0.0188	1.0443
11014	F10	4488	9188	DDX21	0.0188	1.0443
11063	D11	9990	80007	C10orf88	0.0188	1.0443
11046	E11	9430	339965	CCDC158	0.0189	1.0444
11070	D10	9641	55892	MYNN	0.0189	1.0445
51025	H11	56864	57505	AARS2	0.0189	1.0445
31027	B09	15064	55975	KLHL7	0.0189	1.0445
11079	E02	3675	8241	RBM10	0.0189	1.0446
11087	C04	3042	1140	CHRN1	0.0190	1.0446
11022	F01	7797	26284	ERAL1	0.0190	1.0446
11055	A05	3954	64782	AEN	0.0190	1.0447
11017	H09	7845	57085	AGTRAP	0.0190	1.0447
11020	G10	3608	1534	CYB561	0.0190	1.0447
11065	B12	2970	51093	C1orf66	0.0190	1.0448
51032	B06	55973	85235	HIST1H2AH	0.0190	1.0448
31023	E03	13381	158399	ZNF483	0.0190	1.0448
51034	A03	54181	282618	IL29	0.0191	1.0449
11053	G02	9282	83733	SLC25A18	0.0191	1.0449
31034	A09	14984	8553	BHLHE40	0.0191	1.0449
11077	H07	2494	79651	RHBDF2	0.0191	1.0449
11008	H06	242	11274	USP18	0.0191	1.0449
51026	F07	53227	1375	CPT1B	0.0191	1.0449
11013	B09	4250	5725	PTBP1	0.0191	1.0450
51017	C04	56733	140880	CST11	0.0191	1.0450
51028	D06	55640	55240	STEAP3	0.0191	1.0450
11001	B02	415	541471	LOC541471	0.0191	1.0450
31045	H08	3587	595	CCND1	0.0191	1.0450
11009	B11	6984	55486	PARL	0.0191	1.0451
51018	F07	56558	3117	HLA-DQA1	0.0192	1.0451
31041	C06	7789	4478	MSN	0.0192	1.0451
11064	C10	9385	164656	TMPRSS6	0.0192	1.0452
11086	B07	7783	91107	TRIM47	0.0192	1.0452
31020	C05	12961	26270	FBXO6	0.0192	1.0452
31026	B12	13994	54900	LAX1	0.0192	1.0453
11064	G08	2454	10278	EFS	0.0193	1.0453
51017	A04	56154	148413	LOC148413	0.0193	1.0453
11041	B11	4523	9768	KIAA0101	0.0193	1.0454
11012	A01	198	27304	MOCS3	0.0193	1.0454
11043	A12	4318	51192	CKLF	0.0193	1.0455
11077	B03	4468	862	RUNX1T1	0.0194	1.0456

11056	C11	8168	9444	QKI	0.0194	1.0456
11082	C12	2673	2173	FABP7	0.0194	1.0457
51012	F04	52729	131578	LRRC15	0.0194	1.0458
11068	C01	8709	23047	PDS5B	0.0194	1.0458
31041	C02	6799	23559	WBP1	0.0195	1.0459
31003	B09	10728	11127	KIF3A	0.0195	1.0459
51003	C10	53127	5790	PTPRCAP	0.0195	1.0459
11055	F01	3934	54148	MRPL39	0.0195	1.0459
51004	E06	53886	166	AES	0.0195	1.0459
11089	G02	681	22901	ARSG	0.0195	1.0459
31040	D06	9585	7124	TNF	0.0195	1.0459
11047	B01	2488	51715	RAB23	0.0195	1.0459
11049	C02	1961	123970	C16orf78	0.0195	1.0460
51013	C11	53467	26156	RSL1D1	0.0195	1.0460
51013	H06	53518	9722	NOS1AP	0.0195	1.0460
31014	E01	12398	158763	ARHGAP36	0.0196	1.0461
11056	G11	2767	2582	GALE	0.0196	1.0461
51015	D11	52954	376132	LRRC10	0.0196	1.0461
31015	A05	12646	94274	PPP1R14A	0.0196	1.0461
11050	B11	1269	10966	RAB40B	0.0196	1.0461
11029	F12	3252	85359	DGCR6L	0.0196	1.0461
11039	F06	8061	247	ALOX15B	0.0196	1.0461
51021	F01	55830	8876	VNN1	0.0196	1.0462
11061	D05	9568	55738	ARFGAP1	0.0197	1.0463
11016	E12	5602	7381	UQCRB	0.0197	1.0463
11016	E09	5688	83943	IMMP2L	0.0197	1.0463
31019	F05	12864	91734	IDI2	0.0197	1.0463
51002	F12	54276	551	AVP	0.0197	1.0463
11040	E10	5016	NA	NA	0.0197	1.0464
11012	G09	6942	991	CDC20	0.0197	1.0464
31039	H11	3423	6904	TBCD	0.0197	1.0464
31014	B04	11887	91875	TTC5	0.0197	1.0464
11081	H08	7596	2788	GNG7	0.0197	1.0465
11087	G03	1271	130399	ACVR1C	0.0197	1.0465
31019	A12	13128	51018	RRP15	0.0197	1.0465
31015	F05	12826	152756	C4orf39	0.0198	1.0465
51004	B01	54944	140711	C20orf118	0.0198	1.0466
11043	F11	6418	7432	VIP	0.0198	1.0467
11073	F11	869	116173	CMTM5	0.0198	1.0467
11071	F02	6796	84916	CIRH1A	0.0198	1.0467
11022	A01	7786	4351	MPI	0.0199	1.0468
51030	F11	53313	84792	C7orf70	0.0199	1.0468
51027	D06	55469	338692	ANKRD13D	0.0199	1.0468
31040	B02	1946	340351	AGBL3	0.0199	1.0469

11050	F12	4652	2631	GBAS	0.0199	1.0469
11061	C10	5822	29915	HCFC2	0.0199	1.0469
11022	F05	7602	54899	PXK	0.0199	1.0469
11022	H06	4036	57504	MTA3	0.0199	1.0470
31013	F03	12280	23308	ICOSLG	0.0200	1.0470
11068	E05	2997	5709	PSMD3	0.0200	1.0470
11055	F10	3641	51451	LCMT1	0.0200	1.0470
31021	B08	13298	55036	CCDC40	0.0200	1.0471
31005	G01	11129	51491	NOP16	0.0200	1.0471
11047	C09	4639	51538	ZCCHC17	0.0200	1.0471
51024	B11	56290	9732	DOCK4	0.0200	1.0472
31006	G05	10893	112714	TUBA3E	0.0200	1.0472
11037	E08	4000	23603	CORO1C	0.0200	1.0472
11076	A02	5121	5228	PGF	0.0200	1.0472
51023	E01	56690	53616	ADAM22	0.0201	1.0472
11081	A03	1130	9087	TMSB4Y	0.0201	1.0473
11069	A05	6827	80198	MUS81	0.0201	1.0473
51027	F06	55515	442117	GALNTL6	0.0201	1.0473
11067	D03	2507	5034	P4HB	0.0201	1.0473
51023	G02	55882	89	ACTN3	0.0201	1.0473
51005	C11	53759	3761	KCNJ4	0.0201	1.0474
11072	E09	1906	169792	GLIS3	0.0201	1.0474
11025	D01	2104	56159	TEX11	0.0201	1.0475
31044	D03	4821	6320	CLEC11A	0.0202	1.0475
11016	E06	5522	55847	CISD1	0.0202	1.0475
11007	E10	6133	3300	DNAJB2	0.0202	1.0475
11065	G11	1608	79858	NEK11	0.0202	1.0475
11024	B10	4126	6772	STAT1	0.0202	1.0476
11071	D09	870	23769	FLRT1	0.0202	1.0476
31038	G10	7634	1453	CSNK1D	0.0202	1.0476
11050	D05	1134	51655	RASD1	0.0202	1.0476
51003	D10	56504	84536	C21orf67	0.0202	1.0477
11018	F10	7623	11126	CD160	0.0202	1.0477
11071	E12	3375	50853	VILL	0.0202	1.0477
31018	A12	12960	8605	PLA2G4C	0.0202	1.0477
11068	H11	9809	9356	SLC22A6	0.0203	1.0478
31033	H03	14717	167153	PAPD4	0.0203	1.0478
11010	G07	5531	1361	CPB2	0.0203	1.0478
11079	G06	5999	5098	PCDHGC3	0.0203	1.0478
11002	A05	8586	883	CCBL1	0.0203	1.0478
51002	D11	52920	9516	LITAF	0.0204	1.0480
31023	F10	13450	79058	ASPSCR1	0.0204	1.0481
51032	C11	55566	149643	C1orf227	0.0204	1.0481
31007	C12	11699	283638	KIAA0284	0.0204	1.0481

11049	F04	3049	3552	IL1A	0.0204	1.0482
11062	E05	9563	79733	E2F8	0.0205	1.0482
11051	G01	4793	51295	ECSIT	0.0205	1.0482
31009	B05	11740	5866	RAB3IL1	0.0205	1.0482
31040	C05	9321	139212	CXorf41	0.0205	1.0482
11007	B07	9700	9649	RALGPS1	0.0205	1.0482
31001	H06	10365	116138	KLHDC3	0.0205	1.0483
51032	G08	55402	51065	RPS27L	0.0205	1.0483
31026	D12	13892	4142	MAS1	0.0205	1.0483
11024	A01	3145	10432	RBM14	0.0205	1.0484
11071	C07	8684	259232	NALCN	0.0205	1.0484
11009	E04	517	90952	ESAM	0.0205	1.0484
31001	B06	10759	91319	DERL3	0.0206	1.0485
11022	D10	7379	64425	POLR1E	0.0206	1.0485
11046	C06	9845	256957	C17orf66	0.0206	1.0485
11045	F09	2718	7076	TIMP1	0.0206	1.0485
31023	D12	13627	51744	CD244	0.0206	1.0485
31029	A12	14437	222236	NAPEPLD	0.0206	1.0485
11026	H02	1164	6863	TAC1	0.0206	1.0485
11003	A12	9878	4045	LSAMP	0.0206	1.0485
11030	F01	6626	55909	BIN3	0.0206	1.0486
11026	D03	2783	18	ABAT	0.0206	1.0486
51034	F12	53722	2798	GNRHR	0.0206	1.0486
31034	D01	14907	10345	TRDN	0.0206	1.0486
31038	D03	14722	7707	ZNF148	0.0206	1.0486
11030	D06	9658	245812	CNPY4	0.0206	1.0487
31044	A09	2259	441058	MGC39584	0.0207	1.0487
11074	B07	4839	84313	VPS25	0.0207	1.0487
11009	E03	46	9861	PSMD6	0.0207	1.0487
11073	C01	8884	10608	MXD4	0.0207	1.0488
11059	B03	9537	84002	B3GNT5	0.0207	1.0489
11015	H02	6513	3151	HMG2	0.0207	1.0489
11044	D09	4616	7329	UBE2I	0.0207	1.0489
11013	H10	6541	51	ACOX1	0.0207	1.0489
11073	H07	4315	80777	CYB5B	0.0208	1.0490
51034	D05	53857	196264	MPZL3	0.0208	1.0490
11060	F12	5305	6122	RPL3	0.0208	1.0491
31037	B09	14244	84901	NFATC2IP	0.0209	1.0492
51008	D10	55177	2737	GLI3	0.0209	1.0492
11006	H07	4541	84287	ZDHHC16	0.0209	1.0492
31026	F05	13869	9032	TM4SF5	0.0209	1.0492
11032	D10	7761	9528	TMEM59	0.0209	1.0492
11022	H07	3344	79050	NOC4L	0.0209	1.0492
51027	H01	55315	54845	ESRP1	0.0209	1.0493

11037	C12	9914	57404	CYP20A1	0.0209	1.0493
11077	H11	2644	51603	METTL13	0.0209	1.0493
31026	E05	13827	1413	CRYBA4	0.0209	1.0493
11077	E12	1272	53919	SLCO1C1	0.0209	1.0493
51029	F11	55664	57159	TRIM54	0.0209	1.0493
11055	B04	7201	5892	RAD51L3	0.0209	1.0493
11009	G11	104	2150	F2RL1	0.0209	1.0494
31003	B01	10778	84892	C3orf39	0.0209	1.0494
51021	F07	55836	339010	POTEB	0.0209	1.0494
11061	C01	585	113655	MFSD3	0.0210	1.0494
11002	G04	5183	200014	CC2D1B	0.0210	1.0495
11079	C12	6064	2735	GLI1	0.0210	1.0495
31003	B04	10581	83479	DDX59	0.0210	1.0495
51030	A07	55670	10345	TRDN	0.0210	1.0495
11063	A07	9503	92949	ADAMTSL1	0.0210	1.0496
51006	F11	54687	374986	FAM73A	0.0210	1.0496
11073	D10	2128	56648	EIF5A2	0.0210	1.0496
11052	C03	1556	168537	GIMAP7	0.0211	1.0497
11084	A05	2642	326624	RAB37	0.0211	1.0497
11032	E07	9110	55339	WDR33	0.0211	1.0497
11028	A05	89	55974	RAG1AP1	0.0211	1.0497
11065	G07	9969	2534	FYN	0.0211	1.0498
11030	A04	7711	23429	RYBP	0.0211	1.0498
51030	E09	56941	643236	TMEM72	0.0211	1.0498
11017	F05	8008	94103	ORMDL3	0.0211	1.0499
31040	E04	8771	64793	CCDC21	0.0212	1.0500
31043	E08	7720	30846	EHD2	0.0212	1.0500
51002	F02	52775	154386	C6orf195	0.0212	1.0501
31005	E01	11035	753	C18orf1	0.0213	1.0502
31006	D04	11150	7941	PLA2G7	0.0213	1.0502
51006	G07	55409	81608	FIP1L1	0.0213	1.0502
51016	A10	56756	340017	LOC340017	0.0213	1.0502
51006	C01	53634	51289	RXFP3	0.0213	1.0502
11075	A01	2266	63948	DMRTB1	0.0213	1.0503
11059	G10	5672	419	ART3	0.0213	1.0503
31005	E12	10823	84612	PAR6B	0.0213	1.0503
31038	C04	14503	653519	GPR89A	0.0213	1.0504
11016	A11	7505	6281	S100A10	0.0213	1.0504
11049	D06	4729	3732	CD82	0.0214	1.0505
11063	F09	830	9015	TAF1A	0.0214	1.0505
51025	A01	53277	7249	TSC2	0.0214	1.0505
11029	G01	3531	23443	SLC35A3	0.0214	1.0506
51022	B01	55920	7569	ZNF182	0.0215	1.0507
31015	G09	12691	79850	FAM57A	0.0215	1.0507

11021	H06	4675	9791	PTDSS1	0.0215	1.0507
51003	B10	54614	390443	RNASE9	0.0215	1.0508
11022	B05	7538	11103	KRR1	0.0215	1.0508
11074	D09	5601	6447	SCG5	0.0215	1.0509
51016	B01	54524	54145	H2BFS	0.0215	1.0509
51029	E06	56117	130367	SGPP2	0.0216	1.0509
31015	B11	12813	28299	IGKV1-5	0.0216	1.0509
51030	D03	55450	22977	AKR7A3	0.0216	1.0509
51017	B03	56746	284688	LOC284688	0.0216	1.0510
11047	E06	4107	54512	EXOSC4	0.0216	1.0510
11024	D07	4743	55249	YY1AP1	0.0216	1.0510
11035	D07	3414	2584	GALK1	0.0216	1.0511
51026	D08	56485	58513	EPS15L1	0.0216	1.0511
11064	B12	7589	64320	RNF25	0.0216	1.0511
11051	A11	6575	57222	ERGIC1	0.0217	1.0512
51033	G10	53528	5303	PIN4	0.0217	1.0512
31012	F01	12175	84068	SLC10A7	0.0217	1.0512
11059	G01	6494	3294	HSD17B2	0.0217	1.0512
11066	G06	9858	29999	FSCN3	0.0217	1.0512
11002	G06	5603	7039	TGFA	0.0217	1.0514
31044	C02	7991	80303	EFHD1	0.0218	1.0514
11045	G03	864	116211	TM4SF19	0.0218	1.0514
11055	D09	9126	55823	VPS11	0.0218	1.0514
51008	F02	53864	57176	VAR52	0.0218	1.0514
31026	C08	13880	687	KLF9	0.0218	1.0514
11022	D12	7181	55178	RNMTL1	0.0218	1.0514
51010	B05	53011	7096	TLR1	0.0218	1.0515
11076	C04	3808	9097	USP14	0.0218	1.0515
31034	A01	14906	112744	IL17F	0.0218	1.0516
11039	C08	2190	152687	ZNF595	0.0219	1.0516
11018	G09	7830	6324	SCN1B	0.0219	1.0516
11066	B04	10140	4664	NAB1	0.0219	1.0516
11064	E12	7134	11329	STK38	0.0219	1.0516
11058	A03	7058	5886	RAD23A	0.0219	1.0517
51033	H02	55534	729603	LOC729603	0.0219	1.0517
31044	A07	3704	79414	LRFN3	0.0219	1.0518
11047	F01	159	132160	PPM1M	0.0219	1.0518
31039	F08	1103	8226	HDHD1	0.0220	1.0518
11045	E02	171	64859	OBFC2A	0.0220	1.0519
11048	D03	8618	79802	HHIPL2	0.0220	1.0519
11050	E07	1862	25830	SULT4A1	0.0220	1.0519
31039	E01	3457	84273	C4orf14	0.0220	1.0519
11048	D11	709	115024	NT5C3L	0.0220	1.0520
31039	D10	369	710	SERPING1	0.0220	1.0520

11059	D05	4132	5576	PRKAR2A	0.0220	1.0520
11014	D12	980	9744	ACAP1	0.0220	1.0520
11038	F06	5257	3312	HSPA8	0.0220	1.0520
11010	C07	7434	27013	C2orf24	0.0220	1.0520
51029	C02	55273	131583	FAM43A	0.0220	1.0521
31043	F03	7754	308	ANXA5	0.0221	1.0521
31008	G05	11568	11068	CYB561D2	0.0221	1.0522
11014	B03	166	79595	SAP130	0.0221	1.0522
31021	F11	12947	416	ARSF	0.0221	1.0522
11086	F06	1296	26039	SS18L1	0.0221	1.0523
11083	C08	7877	63940	GPSM3	0.0221	1.0523
11037	B02	6077	7849	PAX8	0.0222	1.0523
11087	E05	133	5709	PSMD3	0.0222	1.0523
31031	D06	14527	394	ARHGAP5	0.0222	1.0524
11065	C03	1145	10391	CORO2B	0.0222	1.0524
51030	A05	53199	163404	LPPR5	0.0222	1.0525
31014	G05	12258	64129	TINAGL1	0.0222	1.0525
11015	C08	9027	590	BCHE	0.0222	1.0525
11077	E04	2453	9729	KIAA0408	0.0222	1.0525
11050	B07	627	115290	FBXO17	0.0222	1.0526
11078	B02	5889	10256	CNKSR1	0.0223	1.0526
31034	B03	14884	NA	NA	0.0223	1.0526
11019	H11	7375	10100	TSPAN2	0.0223	1.0526
11079	F05	3985	9276	COPB2	0.0223	1.0527
11072	F07	9912	7097	TLR2	0.0223	1.0527
11087	B03	3010	246269	LACE1	0.0223	1.0528
51003	D02	52586	337960	KRTAP13-3	0.0223	1.0528
11006	C08	8357	121506	ERP27	0.0223	1.0528
11085	E01	3209	826	CAPNS1	0.0224	1.0528
11086	G08	2505	202915	TMEM184A	0.0224	1.0528
11012	D01	348	27242	TNFRSF21	0.0224	1.0528
11071	D06	9824	7148	TNXB	0.0224	1.0529
31023	G07	13424	10202	DHRS2	0.0224	1.0529
31019	E09	13259	29970	SCHIP1	0.0224	1.0530
11084	A10	4628	65997	RASL11B	0.0224	1.0530
11047	G05	2520	166793	ZBTB49	0.0224	1.0530
51006	A02	53694	55584	CHRNA9	0.0224	1.0530
11021	A11	5596	5685	PSMA4	0.0225	1.0531
11076	F06	4872	2139	EYA2	0.0225	1.0531
11027	C03	2918	79870	BAALC	0.0225	1.0531
11063	H09	4267	218	ALDH3A1	0.0225	1.0532
11077	C10	2147	151112	ZSWIM2	0.0225	1.0532
31024	A11	13439	2870	GRK6	0.0226	1.0533
11083	F11	678	11082	ESM1	0.0226	1.0533

31010	H10	11480	23446	SLC44A1	0.0226	1.0533
31001	G08	10367	11149	BVES	0.0226	1.0534
51024	B10	56298	8972	MGAM	0.0226	1.0534
11057	A07	9273	284359	IZUMO1	0.0226	1.0534
51004	H02	54619	130827	TMEM182	0.0226	1.0534
11029	C04	9965	1942	EFNA1	0.0226	1.0534
11049	B03	314	6189	RPS3A	0.0226	1.0534
11010	A04	5200	84991	RBM17	0.0227	1.0536
11034	G07	6281	3772	KCNJ15	0.0227	1.0536
11038	B07	6171	55971	BAIAP2L1	0.0227	1.0536
51031	C08	55266	283693	LOC283693	0.0228	1.0538
51001	B12	54927	400710	FLJ26850	0.0228	1.0538
11059	B09	1361	51298	THEG	0.0228	1.0539
31038	B03	14501	150383	C22orf40	0.0228	1.0539
11009	D10	5416	54973	CPSF3L	0.0228	1.0539
11002	H04	5466	9403	SEP15	0.0228	1.0540
51009	C04	53118	5707	PSMD1	0.0228	1.0540
11047	D08	999	9581	PREPL	0.0229	1.0540
31006	C01	10856	1903	S1PR3	0.0229	1.0540
11077	E08	2362	154313	C6orf165	0.0229	1.0540
31038	F03	14618	4660	PPP1R12B	0.0229	1.0541
51026	H05	55308	6877	TAF5	0.0229	1.0541
11027	H06	3544	5919	RARRES2	0.0229	1.0541
31039	B11	8987	4926	NUMA1	0.0229	1.0541
11016	C01	5546	9419	CRIPT	0.0229	1.0542
11061	C08	4902	10785	WDR4	0.0229	1.0542
11006	F09	5785	85015	USP45	0.0229	1.0542
31003	H02	10480	1408	CRY2	0.0229	1.0542
51001	H01	56654	84981	C17orf91	0.0229	1.0542
11027	B02	3207	11161	C14orf1	0.0229	1.0543
31003	A02	10318	55975	KLHL7	0.0230	1.0543
31041	F05	6829	3597	IL13RA1	0.0230	1.0543
31006	A07	11321	2675	GFRA2	0.0230	1.0543
11089	C05	683	9325	TRIP4	0.0230	1.0544
31011	G05	12029	83605	CCM2	0.0230	1.0544
51004	B11	53919	10005	ACOT8	0.0230	1.0544
31023	D04	13443	51406	NOL7	0.0230	1.0544
31002	C11	10383	9993	DGCR2	0.0230	1.0544
11046	H07	2185	57097	PARP11	0.0230	1.0544
51018	H11	56120	91461	PKDCC	0.0230	1.0545
11056	A07	2654	2203	FBP1	0.0230	1.0545
11011	B05	220	56963	RGMA	0.0230	1.0545
31036	B06	11294	5949	RBP3	0.0230	1.0545
11053	C03	1237	164684	WBP2NL	0.0231	1.0546

11088	H01	9672	140706	C20orf160	0.0231	1.0547
11002	B05	923	6990	DYNLT3	0.0232	1.0548
11040	D09	8668	4336	MOBP	0.0232	1.0548
31021	E10	13155	162655	ZNF519	0.0232	1.0548
11039	C05	5306	23504	RIMBP2	0.0232	1.0549
11002	D09	5608	51023	MRPS18C	0.0232	1.0549
31009	H02	11340	10002	NR2E3	0.0232	1.0549
11081	G03	7287	440700	LOC440700	0.0232	1.0550
11015	E01	9127	9910	RABGAP1L	0.0232	1.0550
11022	B01	7352	84881	RPUSD4	0.0232	1.0550
11043	D05	5458	858	CAV2	0.0233	1.0550
11087	E02	6279	162979	ZNF296	0.0233	1.0550
31004	A04	10371	4811	NID1	0.0233	1.0551
11060	D02	8542	9399	STOML1	0.0233	1.0551
11054	E04	6683	51202	DDX47	0.0233	1.0551
31042	G03	5584	55033	FKBP14	0.0233	1.0552
11052	B12	8612	2161	F12	0.0233	1.0552
11028	A03	3254	5478	PPIA	0.0233	1.0552
11038	H03	5880	9060	PAPSS2	0.0234	1.0552
51033	B06	53913	337971	KRTAP19-4	0.0234	1.0553
11088	B04	5077	84305	WIBG	0.0234	1.0553
11010	H08	3659	10211	FLOT1	0.0234	1.0553
11025	B06	9747	23181	DIP2A	0.0234	1.0553
11054	D06	6493	55872	PBK	0.0234	1.0553
11051	H11	2822	51031	GLOD4	0.0234	1.0554
11017	G04	3382	11156	PTP4A3	0.0234	1.0555
11052	B11	2834	51170	HSD17B11	0.0235	1.0556
31033	F10	14845	1472	CST4	0.0235	1.0556
11001	E04	3085	10962	MLLT11	0.0235	1.0557
11073	H11	1136	4005	LMO2	0.0235	1.0557
11036	C01	6980	60626	RIC8A	0.0235	1.0557
11051	G03	5468	6819	SULT1C2	0.0236	1.0558
51021	C12	55845	55879	GABRQ	0.0236	1.0558
11076	D04	4058	79149	ZSCAN5A	0.0236	1.0558
11056	B03	195	51669	TMEM66	0.0236	1.0559
11022	G03	7994	23549	DNPEP	0.0236	1.0559
31006	E08	11192	440193	CCDC88C	0.0236	1.0559
31003	A08	10798	6498	SKIL	0.0236	1.0559
11062	B04	10051	5601	MAPK9	0.0237	1.0560
11069	F12	9366	58985	IL22RA1	0.0237	1.0560
51003	G02	54984	400932	FLJ46257	0.0237	1.0560
51031	F05	55589	10750	GRAP	0.0237	1.0560
11015	D05	8989	338382	RAB7B	0.0237	1.0561
31029	A05	14401	339184	CCDC144NL	0.0237	1.0562

11048	A11	5582	51118	UTP11L	0.0237	1.0562
31044	D09	567	90693	CCDC126	0.0238	1.0562
51020	D01	56021	284390	ZNF763	0.0238	1.0562
11018	C09	6876	1647	GADD45A	0.0238	1.0563
31015	G01	12414	11334	TUSC2	0.0238	1.0563
11041	C12	5595	4477	MSMB	0.0238	1.0563
11059	H07	4995	9214	FAIM3	0.0238	1.0563
31039	F01	6732	55726	C12orf11	0.0238	1.0563
11006	A08	2620	6615	SNAI1	0.0238	1.0563
51021	E02	56054	80059	LRRTM4	0.0238	1.0563
51001	B03	52681	79963	ABCA11P	0.0238	1.0564
11068	B04	2636	1041	CDSN	0.0238	1.0564
11072	C05	8705	64693	CTAGE1	0.0238	1.0564
11047	C05	6991	3068	HDGF	0.0238	1.0564
31011	E11	12298	64928	MRPL14	0.0238	1.0564
31027	C12	14317	7752	ZNF200	0.0238	1.0564
31033	C01	14756	23224	SYNE2	0.0239	1.0565
31030	E02	14467	51185	CRBN	0.0239	1.0565
11042	B02	860	55332	DRAM1	0.0239	1.0566
11058	D07	2025	11191	PTENP1	0.0239	1.0566
11014	A03	7281	1209	CLPTM1	0.0239	1.0566
11027	H03	2628	51187	RSL24D1	0.0239	1.0566
11034	E05	7989	29995	LMCD1	0.0239	1.0566
11056	B10	2994	112476	PRRT2	0.0239	1.0567
11056	E01	9822	57168	ASPHD2	0.0239	1.0567
11044	F06	221	201965	RWDD4A	0.0239	1.0567
11051	H07	2862	291	SLC25A4	0.0239	1.0567
11004	H05	331	NA	NA	0.0239	1.0567
31021	D08	12921	719	C3AR1	0.0239	1.0567
31006	D06	11156	285555	C4orf37	0.0240	1.0567
31018	F05	13086	6039	RNASE6	0.0240	1.0567
11050	B02	499	11130	ZWINT	0.0240	1.0567
11045	B10	2743	10890	RAB10	0.0240	1.0568
11008	E02	9155	196441	ZFC3H1	0.0240	1.0568
31029	A09	14367	57019	CIAPIN1	0.0240	1.0568
31039	B07	3096	541578	CXorf40B	0.0240	1.0568
31025	G06	13705	2050	EPHB4	0.0241	1.0570
11042	A05	8906	83641	FAM107B	0.0241	1.0570
11066	E02	6019	51343	FZR1	0.0241	1.0570
31008	G02	11435	253827	MSRB3	0.0241	1.0571
51004	E03	52637	23546	SYNGR4	0.0241	1.0571
11079	H08	10050	488	ATP2A2	0.0241	1.0571
11061	B04	471	1800	DPEP1	0.0241	1.0571
11048	E04	5396	10202	DHRS2	0.0241	1.0571

11018	E05	6749	29100	TMEM208	0.0241	1.0571
31015	C04	12628	25953	PNKD	0.0242	1.0572
11003	C12	9362	121268	RHEBL1	0.0242	1.0572
31008	A02	11472	7378	UPP1	0.0242	1.0572
11020	H11	7163	6835	SURF2	0.0242	1.0573
51028	A05	55323	8974	P4HA2	0.0242	1.0573
11054	A06	9310	140	ADORA3	0.0242	1.0573
51001	E02	52590	245909	DEFB106A	0.0242	1.0573
11087	A10	6664	1263	PLK3	0.0242	1.0573
11007	G07	6857	6888	TALDO1	0.0242	1.0574
51030	C08	56217	201299	RDM1	0.0242	1.0574
11086	H06	5933	10342	TFG	0.0242	1.0574
31036	G07	12257	5698	PSMB9	0.0243	1.0575
11066	H09	2269	148789	B3GALNT2	0.0243	1.0575
31021	A02	12860	419	ART3	0.0243	1.0575
11051	D08	826	140462	ASB9	0.0243	1.0575
11076	D07	4021	5471	PPAT	0.0243	1.0576
11009	D08	6533	26135	SERBP1	0.0243	1.0577
11002	C03	9804	2168	FABP1	0.0244	1.0577
31008	H03	11357	255762	PDZD9	0.0244	1.0577
11082	E03	6476	6613	SUMO2	0.0244	1.0578
31033	B11	14939	131920	TMEM207	0.0244	1.0578
31031	F05	14491	9260	PDLIM7	0.0244	1.0578
31010	E01	11452	374666	WASH3P	0.0244	1.0578
11068	F12	9261	152273	FGD5	0.0244	1.0578
11067	H01	8515	1807	DPYS	0.0245	1.0579
11013	H04	4	55722	CEP72	0.0245	1.0580
31039	A01	9902	79786	KLHL36	0.0245	1.0580
11070	B04	4409	6813	STXBP2	0.0245	1.0580
11001	F07	785	28974	C19orf53	0.0245	1.0581
11008	F05	288	51567	TDP2	0.0245	1.0581
51033	E03	56722	337963	KRTAP23-1	0.0246	1.0582
11001	C12	9673	55757	UGGT2	0.0246	1.0582
11081	D01	9049	6876	TAGLN	0.0246	1.0582
11073	E09	2410	1054	CEBPG	0.0246	1.0583
11068	H10	9716	9993	DGCR2	0.0246	1.0583
11025	B12	1563	5932	RBBP8	0.0246	1.0583
51021	A07	55846	7745	ZNF192	0.0246	1.0583
11014	D10	5279	10072	DPP3	0.0246	1.0583
51031	B10	55645	90427	BMF	0.0246	1.0583
51022	C09	53254	8454	CUL1	0.0246	1.0583
11044	F08	4511	58473	PLEKHB1	0.0247	1.0584
11073	A12	3129	7329	UBE2I	0.0247	1.0585
51026	C11	56853	147991	DPY19L3	0.0247	1.0585

51032	F01	56731	284827	KRTAP13-4	0.0247	1.0585
11053	C09	4241	84735	CNDP1	0.0247	1.0586
11083	B12	8411	50852	TRAT1	0.0247	1.0586
11004	C03	5859	113452	TMEM54	0.0247	1.0586
11059	D02	9968	5549	PRELP	0.0248	1.0587
51005	E10	54459	84282	RNF135	0.0248	1.0587
11063	D02	9293	29993	PACSIN1	0.0248	1.0588
11007	F02	672	5192	PEX10	0.0248	1.0588
11016	G05	6308	5266	PI3	0.0248	1.0588
31027	E06	13954	3742	KCNA6	0.0248	1.0589
11021	D12	5570	3612	IMPA1	0.0249	1.0589
11002	G02	5404	23585	TMEM50A	0.0249	1.0589
11007	F07	4967	1676	DFFA	0.0249	1.0589
11012	H09	7525	51493	C22orf28	0.0249	1.0590
51011	C12	54191	143879	KBTBD3	0.0249	1.0590
11044	H07	509	196410	METTL7B	0.0249	1.0590
11003	E05	5450	969	CD69	0.0249	1.0590
11013	C03	2278	1495	CTNNA1	0.0249	1.0590
51011	A07	52876	6929	TCF3	0.0249	1.0590
11068	F06	8032	54857	GDPD2	0.0249	1.0590
11010	D05	3564	4758	NEU1	0.0249	1.0590
11004	E05	5502	84289	ING5	0.0249	1.0591
51012	E01	53046	90161	HS6ST2	0.0249	1.0591
11070	E03	6879	55276	PGM2	0.0249	1.0591
51031	G06	53297	157657	C8orf37	0.0250	1.0591
11074	E08	1300	2944	GSTM1	0.0250	1.0592
31044	F01	4404	54958	TMEM160	0.0250	1.0592
31026	B04	13902	1427	CRYGS	0.0250	1.0592
11019	G04	7208	58488	PCTP	0.0250	1.0592
11079	A06	7870	3099	HK2	0.0250	1.0592
51021	F08	56157	582	BBS1	0.0250	1.0592
11085	D06	4898	51204	TACO1	0.0250	1.0592
11054	H07	127	7538	ZFP36	0.0250	1.0594
11051	H03	5340	84851	TRIM52	0.0251	1.0594
51028	H03	53329	338692	ANKRD13D	0.0251	1.0594
31038	A06	14438	84894	LINGO1	0.0251	1.0595
31039	D05	2717	8636	SSNA1	0.0251	1.0595
11048	E07	1332	79953	TMEM90B	0.0251	1.0596
11056	A09	577	677	ZFP36L1	0.0251	1.0596
31025	E10	14075	654231	OCM	0.0251	1.0596
11046	F11	2407	54927	CHCHD3	0.0251	1.0596
11057	A02	8492	90459	ERI1	0.0252	1.0596
11054	C03	2965	93210	PGAP3	0.0252	1.0597
11006	F03	8350	2204	FCAR	0.0252	1.0597

51035	C03	54364	4543	MTNR1A	0.0252	1.0597
51033	B02	56723	245908	DEFB105A	0.0252	1.0597
31036	F04	11263	114879	OSBPL5	0.0252	1.0597
51032	A04	56029	653316	FAM153C	0.0252	1.0597
51024	B03	55212	6491	STIL	0.0252	1.0598
11028	F12	8015	27295	PDLIM3	0.0252	1.0598
31040	E11	7061	27163	NAAA	0.0252	1.0598
31042	E11	5061	56961	SHD	0.0253	1.0599
11060	C05	889	64216	TFB2M	0.0253	1.0599
11005	F05	1620	219557	C7orf62	0.0253	1.0599
11051	G08	5715	92014	MCART1	0.0253	1.0600
11041	E10	555	29058	C20orf30	0.0253	1.0600
31022	E09	13417	4521	NUDT1	0.0253	1.0600
11048	E03	4817	4359	MPZ	0.0253	1.0600
51026	A08	53187	54760	PCSK4	0.0253	1.0600
11037	D04	4706	3190	HNRNPK	0.0253	1.0601
31040	G01	1758	6738	TROVE2	0.0254	1.0601
11025	B01	9202	2036	EPB41L1	0.0254	1.0601
11088	E09	2881	80017	C14orf159	0.0254	1.0601
11048	H02	3040	55599	RNPC3	0.0254	1.0601
11003	H07	8666	2157	F8	0.0254	1.0602
11060	E11	6652	91862	MARVELD3	0.0254	1.0602
11016	D07	7559	92259	MRPS36	0.0254	1.0602
31038	B11	324	5211	PFKL	0.0254	1.0602
31022	B01	13523	90011	KIR3DX1	0.0254	1.0603
51032	D07	55243	9789	SPCS2	0.0254	1.0603
11060	D03	3116	5589	PRKCSH	0.0254	1.0603
11057	C05	7255	94056	SYAP1	0.0254	1.0603
51027	F03	55702	999	CDH1	0.0255	1.0604
11016	E03	7628	388799	C20orf107	0.0255	1.0604
51004	H05	53556	134728	IRAK1BP1	0.0255	1.0604
11002	C06	10071	8336	HIST1H2AM	0.0255	1.0604
11059	E05	9521	124783	C17orf46	0.0255	1.0605
11051	C05	6719	7549	ZNF2	0.0255	1.0605
31002	H07	10696	162427	FAM134C	0.0255	1.0605
11002	C09	9840	57494	RIMKLB	0.0255	1.0605
51018	F02	56751	3238	HOXD12	0.0255	1.0606
51015	A10	53133	340371	NRBP2	0.0255	1.0606
11042	E01	8447	729515	C6orf35	0.0256	1.0606
11012	D08	7372	6464	SHC1	0.0256	1.0606
51006	B04	54695	51557	LGSN	0.0256	1.0606
51011	C05	54125	92291	CAPN13	0.0256	1.0606
51015	C12	53776	2488	FSHB	0.0256	1.0607
11060	B11	4753	4144	MAT2A	0.0256	1.0608

51032	H07	55453	652276	LOC652276	0.0256	1.0608
31043	C09	7919	11236	RNF139	0.0256	1.0608
31013	E08	12013	79980	DSN1	0.0257	1.0609
31026	D03	13813	1409	CRYAA	0.0257	1.0609
11046	D01	4587	51160	VPS28	0.0257	1.0609
31005	A07	10837	9949	AMMECR1	0.0257	1.0609
51026	A04	56484	57113	TRPC7	0.0257	1.0609
31025	E08	13797	2994	GYPB	0.0258	1.0611
11018	A04	7535	57456	KIAA1143	0.0258	1.0611
11063	G07	4595	7846	TUBA1A	0.0258	1.0612
11010	B03	5313	2068	ERCC2	0.0258	1.0612
11049	H03	4316	2709	GJB5	0.0258	1.0612
11019	B03	7547	664	BNIP3	0.0258	1.0613
31034	F03	14908	440184	NCRNA00238	0.0258	1.0613
51006	F12	54895	117153	MIA2	0.0258	1.0613
31010	D10	11556	4059	BCAM	0.0258	1.0613
31041	C11	5261	7873	MANF	0.0259	1.0613
11077	D11	3878	22954	TRIM32	0.0259	1.0613
11062	C03	4845	10298	PAK4	0.0259	1.0614
51034	D02	54354	653240	KRTAP4-11	0.0259	1.0614
51024	F07	56224	6091	ROBO1	0.0259	1.0614
11007	H02	6885	2783	GNB2	0.0259	1.0614
31002	C05	10761	221150	SKA3	0.0259	1.0614
11044	B05	947	10465	PPIH	0.0259	1.0615
51011	E10	53961	114134	SLC2A13	0.0259	1.0615
51017	E09	56705	NA	NA	0.0259	1.0615
11071	B08	7600	30827	CXXC1	0.0259	1.0615
11010	C10	365	9775	EIF4A3	0.0259	1.0615
51025	F08	53218	57562	KIAA1377	0.0259	1.0615
11075	D04	4066	26353	HSPB8	0.0259	1.0615
11016	A10	6434	2252	FGF7	0.0260	1.0616
31025	B09	14056	728712	SPANXA2	0.0260	1.0616
31005	B06	10864	254359	ZDHHC24	0.0260	1.0616
11083	A03	2392	6155	RPL27	0.0260	1.0617
31039	D11	5103	10531	PITRM1	0.0260	1.0617
51022	G11	56302	101	ADAM8	0.0260	1.0617
51008	F10	56225	10497	UNC13B	0.0260	1.0617
11013	A02	2829	54946	SLC41A3	0.0260	1.0617
11002	D03	9314	4693	NDP	0.0260	1.0618
11006	G10	3966	4869	NPM1	0.0260	1.0618
11051	E02	4371	79947	DHDDS	0.0261	1.0618
31023	F04	13711	124995	MRPL10	0.0261	1.0619
11020	A04	6083	9592	IER2	0.0261	1.0619
51003	B02	52583	56300	IL1F9	0.0261	1.0619

11077	G03	3903	4000	LMNA	0.0261	1.0620
51008	A05	54584	5506	PPP1R3A	0.0262	1.0621
11053	B04	8597	84561	SLC12A8	0.0262	1.0622
11008	A12	285	3660	IRF2	0.0262	1.0622
11054	E12	5551	26751	SH3YL1	0.0263	1.0624
11043	B10	5101	254896	LOC254896	0.0263	1.0624
31004	B04	10616	8502	PKP4	0.0263	1.0625
11055	H09	3837	9409	PEX16	0.0263	1.0625
11072	A12	19	4174	MCM5	0.0263	1.0625
11056	E04	4068	28951	TRIB2	0.0263	1.0625
31038	C09	7280	23562	CLDN14	0.0263	1.0625
11059	E11	8792	2319	FLOT2	0.0264	1.0626
11016	C12	6286	9506	PAGE4	0.0264	1.0626
31016	D03	12583	6187	RPS2	0.0264	1.0626
51035	B01	53736	6975	TECTB	0.0264	1.0626
31021	D03	13311	115201	ATG4A	0.0264	1.0627
31040	E12	6842	85395	C21orf70	0.0264	1.0627
51013	D09	53087	5018	OXA1L	0.0264	1.0627
31010	E04	11521	4327	MMP19	0.0264	1.0627
11077	D04	875	89970	RSPRY1	0.0264	1.0627
51024	D04	55187	6655	SOS2	0.0264	1.0627
51009	D08	53506	283383	GPR133	0.0264	1.0628
11045	A11	4217	80110	ZNF614	0.0264	1.0628
31007	A01	11153	1879	EBF1	0.0264	1.0628
51011	F05	53031	51702	PADI3	0.0265	1.0628
11018	F09	6710	50861	STMN3	0.0265	1.0628
31026	C04	13809	50616	IL22	0.0265	1.0629
11080	H03	1482	23	ABCF1	0.0265	1.0630
11008	G07	3410	84245	MRI1	0.0265	1.0630
31008	F06	11620	5683	PSMA2	0.0266	1.0630
11016	G01	7557	145957	NRG4	0.0266	1.0631
11029	E12	5769	1442	CSH1	0.0266	1.0631
11044	E08	2674	55207	ARL8B	0.0266	1.0632
51003	F04	56320	30848	CTAG2	0.0266	1.0632
51004	B07	53739	51032	CELA2B	0.0266	1.0632
11006	A02	7230	113277	TMEM106A	0.0267	1.0633
11042	D03	1680	1381	CRABP1	0.0267	1.0633
11071	H08	1129	10446	LRRN2	0.0267	1.0633
11027	E02	9530	5003	SLC22A18AS	0.0267	1.0633
31015	F12	12724	6627	SNRPA1	0.0267	1.0634
11068	B12	2601	79802	HHIPL2	0.0267	1.0635
31017	D03	12590	9179	AP4M1	0.0267	1.0635
11062	H06	9812	57094	CPA6	0.0268	1.0636
11039	G11	1913	9886	RHOBTB1	0.0268	1.0636

11021	A03	5204	3115	HLA-DPB1	0.0268	1.0636
11067	D07	9802	90	ACVR1	0.0268	1.0636
51008	C11	53595	1794	DOCK2	0.0268	1.0636
51028	G11	55459	136227	EMID2	0.0268	1.0637
51027	B11	53357	60494	CCDC81	0.0268	1.0637
11061	E02	3787	1453	CSNK1D	0.0269	1.0639
31022	C12	13425	5892	RAD51L3	0.0269	1.0639
11056	E07	4368	7703	PCGF2	0.0269	1.0639
31030	B10	14252	55901	THSD1	0.0269	1.0639
11048	D05	9535	140545	RNF32	0.0269	1.0640
11016	A03	8841	79089	TMUB2	0.0269	1.0640
31017	D06	12658	8602	NOP14	0.0269	1.0640
51001	D04	52656	11142	PKIG	0.0269	1.0640
11041	B06	8669	56986	DTWD1	0.0269	1.0640
31027	B04	13976	89778	SERPINB11	0.0270	1.0641
51002	D04	55972	8337	HIST2H2AA3	0.0270	1.0641
11052	H04	8905	351	APP	0.0270	1.0641
11044	H03	4472	29101	SSU72	0.0270	1.0641
51022	F09	56684	55697	VAC14	0.0270	1.0642
11069	B11	7247	6548	SLC9A1	0.0270	1.0642
51013	C02	52782	167127	UGT3A2	0.0270	1.0642
11044	H02	8545	129530	LYG1	0.0270	1.0642
51009	H03	53061	121601	ANO4	0.0270	1.0642
31007	E09	11618	10904	BLCAP	0.0270	1.0642
31042	A11	5338	253461	ZBTB38	0.0270	1.0643
11007	C10	6778	51035	UBXN1	0.0271	1.0643
51021	G04	56047	165057	FLJ39061	0.0271	1.0643
11019	F08	7350	115861	NXNL1	0.0271	1.0643
51013	G01	54913	79799	UGT2A3	0.0271	1.0643
51003	D03	54083	1419	CRYGB	0.0271	1.0644
11050	A04	6257	120224	TMEM45B	0.0271	1.0644
51021	E12	56158	6545	SLC7A4	0.0271	1.0644
11044	D07	8563	79582	SPAG16	0.0271	1.0644
11012	F10	6763	3437	IFIT3	0.0271	1.0644
11083	E12	8762	84939	MUM1	0.0271	1.0645
11087	C01	5271	7760	ZNF213	0.0271	1.0645
51008	E10	55194	7074	TIAM1	0.0271	1.0645
11069	B01	9364	85320	ABCC11	0.0271	1.0645
51025	B01	56887	63971	KIF13A	0.0272	1.0645
51002	A03	52720	85285	KRTAP4-1	0.0272	1.0645
31042	A10	6005	25849	PARM1	0.0272	1.0645
11035	H04	6405	2004	ELK3	0.0272	1.0646
51024	B02	54653	51455	REV1	0.0272	1.0646
11019	D09	6012	5691	PSMB3	0.0272	1.0646

11035	B12	6690	6570	SLC18A1	0.0272	1.0646
11048	H01	2893	23558	WBP2	0.0272	1.0646
31039	A02	2058	51222	ZNF219	0.0272	1.0647
51030	D09	56444	167555	FAM151B	0.0273	1.0648
51010	F07	54144	221458	KIF6	0.0273	1.0648
51021	C05	56662	57465	TBC1D24	0.0273	1.0649
31006	D02	10950	170261	ZCCHC12	0.0273	1.0649
11058	A05	5979	5984	RFC4	0.0273	1.0649
11082	D12	2985	4807	NHLH1	0.0273	1.0650
11056	A12	3859	4191	MDH2	0.0274	1.0650
11013	H11	5849	22955	SCMH1	0.0274	1.0650
51030	A10	55257	8558	CDK10	0.0274	1.0651
11006	B11	5536	10136	CELA3A	0.0274	1.0651
11065	G06	9573	53339	BTBD1	0.0274	1.0652
31030	D03	14231	129831	RBM45	0.0274	1.0652
11008	E11	4017	11152	WDR45	0.0275	1.0653
11077	G05	1375	8277	TKTL1	0.0275	1.0654
11014	D02	8203	4140	MARK3	0.0275	1.0654
11010	G11	4249	10262	SF3B4	0.0275	1.0654
31012	H11	12052	100288778	LOC100288778	0.0275	1.0654
11006	C12	8529	284099	C17orf78	0.0275	1.0654
51022	B11	55875	56104	PCDHGB1	0.0275	1.0655
11008	F12	5941	6611	SMS	0.0275	1.0655
51027	E08	55340	406	ARNTL	0.0276	1.0655
31017	G08	12845	93986	FOXP2	0.0276	1.0656
31005	D06	11277	8611	PPAP2A	0.0276	1.0656
51028	G05	55503	1687	DFNA5	0.0276	1.0657
11080	F08	10144	8483	CILP	0.0276	1.0657
11008	C10	7237	2771	GNAI2	0.0276	1.0657
51033	H06	55075	284100	LOC284100	0.0276	1.0657
51032	E08	55519	805	CALM2	0.0276	1.0657
51009	E03	54260	81578	COL21A1	0.0276	1.0657
51023	H03	56264	151887	CCDC80	0.0277	1.0658
11055	F06	5630	26275	HIBCH	0.0277	1.0658
11038	G05	5835	10324	KBTD10	0.0277	1.0659
11047	H02	4693	5720	PSME1	0.0277	1.0659
11004	C08	5747	5553	PRG2	0.0278	1.0660
11046	B06	2413	4736	RPL10A	0.0278	1.0661
31038	F05	14332	26261	FBXO24	0.0278	1.0661
11076	H06	4400	26286	ARFGAP3	0.0278	1.0661
51024	F05	55164	1612	DAPK1	0.0278	1.0661
51034	G10	54186	79345	OR51B2	0.0279	1.0662
51004	A07	53945	162466	PHOSPHO1	0.0279	1.0663
51033	H05	53548	2644	GCHFR	0.0279	1.0663

11068	C07	2275	285172	FAM126B	0.0279	1.0664
11086	H09	6792	57410	SCYL1	0.0279	1.0664
11066	D05	1877	2556	GABRA3	0.0279	1.0665
31012	E06	12006	10750	GRAP	0.0279	1.0665
31044	F08	6198	5091	PC	0.0280	1.0665
11005	F09	646	56650	CLDND1	0.0280	1.0666
11015	F05	7620	58527	C6orf115	0.0280	1.0666
11003	E01	5287	6191	RPS4X	0.0281	1.0667
11005	G03	9895	57409	MIF4GD	0.0281	1.0667
51022	G03	55857	1261	CNGA3	0.0281	1.0667
11005	E04	902	2810	SFN	0.0281	1.0667
11001	C11	10216	153364	MBLAC2	0.0281	1.0668
11053	A09	1008	8851	CDK5R1	0.0281	1.0668
31044	F10	371	1072	CFL1	0.0281	1.0668
11044	G05	7148	28512	NKIRAS1	0.0281	1.0668
11066	H01	6603	60686	C14orf93	0.0281	1.0669
11074	C01	2257	131870	NUDT16	0.0281	1.0669
11071	G11	6561	63935	PCIF1	0.0282	1.0670
31012	D02	12358	1033	CDKN3	0.0282	1.0670
51005	B11	55441	149483	CCDC17	0.0282	1.0670
11086	D08	4645	409	ARRB2	0.0282	1.0670
11008	C07	5285	5013	OTX1	0.0282	1.0670
11050	B06	4193	874	CBR3	0.0282	1.0671
51012	C05	52740	84069	PLEKHN1	0.0282	1.0671
51001	E10	54962	219854	TMEM218	0.0282	1.0671
11001	F01	10187	196500	C12orf53	0.0282	1.0671
11089	A01	1118	64850	AGXT2L1	0.0282	1.0672
11052	E09	7386	65008	MRPL1	0.0282	1.0672
11004	B06	3060	51399	TRAPPC4	0.0282	1.0672
11072	E06	2426	10813	UTP14A	0.0282	1.0672
11048	H10	1709	84688	C9orf24	0.0283	1.0672
51009	F12	53598	56110	PCDHGA5	0.0283	1.0673
31018	A04	13201	83758	RBP5	0.0283	1.0673
11042	C02	9135	132949	AASDH	0.0283	1.0673
11053	F07	6137	5307	PITX1	0.0283	1.0674
31009	E06	11622	339047	LOC339047	0.0283	1.0674
31021	C08	13221	51458	RHCG	0.0283	1.0674
11019	F05	4022	1841	DTYMK	0.0283	1.0674
11074	F07	1898	28998	MRPL13	0.0283	1.0674
11080	B02	5053	10483	SEC23B	0.0284	1.0675
11039	H08	7288	55902	ACSS2	0.0284	1.0675
11028	G10	8740	5495	PPM1B	0.0284	1.0675
11008	F03	4877	25953	PNKD	0.0284	1.0676
31008	E02	11479	60559	SPCS3	0.0284	1.0676

11016	E10	7483	83460	TMEM93	0.0284	1.0677
11016	D09	7394	6282	S100A11	0.0284	1.0677
11028	C08	1198	8740	TNFSF14	0.0284	1.0677
11073	C10	1169	10284	SAP18	0.0285	1.0677
11057	C11	9341	373863	DND1	0.0285	1.0678
51008	B07	54150	11276	SYNRG	0.0285	1.0678
11059	H08	6869	89884	LHX4	0.0285	1.0678
51031	D01	53290	7019	TFAM	0.0285	1.0678
11044	A10	6944	112616	CMTM7	0.0285	1.0678
51028	F10	55667	348174	CLEC18A	0.0285	1.0679
11009	F05	6062	80895	ILKAP	0.0285	1.0679
11047	E01	2136	137994	LETM2	0.0285	1.0679
11011	F07	5968	84790	TUBA1C	0.0285	1.0679
51028	A02	56366	64781	CERK	0.0286	1.0680
11037	F05	6032	83667	SESN2	0.0286	1.0680
11034	C04	6540	57060	PCBP4	0.0286	1.0681
51024	B01	54999	54795	TRPM4	0.0286	1.0681
11022	C03	7539	427	ASAHI	0.0286	1.0681
11067	E09	8407	5530	PPP3CA	0.0286	1.0681
11039	A03	7151	26128	KIAA1279	0.0286	1.0681
31042	H06	6334	3108	HLA-DMA	0.0286	1.0682
11015	H07	9098	1716	DGUOK	0.0286	1.0682
11057	F05	2144	10690	FUT9	0.0287	1.0682
51014	D11	53022	8045	RASSF7	0.0287	1.0682
11011	H08	3562	9260	PDLIM7	0.0287	1.0683
31007	F11	11827	57119	SPINLW1	0.0287	1.0683
31004	C06	11048	56674	TMEM9B	0.0288	1.0685
31039	E04	8652	9465	AKAP7	0.0288	1.0685
51025	H08	56850	54477	PLEKHA5	0.0288	1.0685
31002	B03	10711	26272	FBXO4	0.0288	1.0686
11016	C04	7703	23187	PHLDB1	0.0288	1.0687
51003	H05	54967	389791	LOC389791	0.0289	1.0687
11086	C11	8166	51203	NUSAP1	0.0289	1.0688
31030	H07	14213	247	ALOX15B	0.0289	1.0688
51008	C10	55594	51585	PCF11	0.0289	1.0689
11013	A10	8216	54758	KLHDC4	0.0289	1.0689
11050	F02	1853	9457	FHL5	0.0289	1.0689
11027	B11	1184	55885	LMO3	0.0289	1.0689
11026	D10	2226	149685	ADIG	0.0289	1.0689
11075	E05	5997	23600	AMACR	0.0289	1.0689
11078	E11	2457	164	APIG1	0.0290	1.0690
51021	G09	55726	5910	RAP1GDS1	0.0290	1.0690
31015	G05	12765	117581	TWIST2	0.0290	1.0690
11080	H02	10102	9373	PLAA	0.0290	1.0691

11088	E07	1403	55349	CHDH	0.0290	1.0691
51027	C03	55683	8540	AGPS	0.0290	1.0691
31037	A01	12196	26052	DNM3	0.0290	1.0691
11020	A12	7097	9552	SPAG7	0.0290	1.0692
11045	D09	710	143187	VTI1A	0.0291	1.0692
11024	G03	10032	10024	TROAP	0.0291	1.0692
11073	A04	3762	10126	DNAL4	0.0291	1.0693
11038	A02	3170	79012	CAMKV	0.0291	1.0693
11011	G11	2787	4723	NDUFV1	0.0291	1.0694
51011	C02	53525	79707	NOL9	0.0291	1.0694
11060	B10	879	4143	MAT1A	0.0291	1.0694
31035	F01	14950	923	CD6	0.0291	1.0694
51026	A03	56839	162394	SLFN5	0.0292	1.0694
11004	E02	2781	90423	ATP6V1E2	0.0292	1.0694
11009	C03	6874	29956	LASS2	0.0292	1.0695
11010	D01	7406	445	ASS1	0.0292	1.0695
11027	H05	3431	23568	ARL2BP	0.0292	1.0696
31039	C04	984	5121	PCP4	0.0292	1.0696
51020	A10	55905	27067	STAU2	0.0292	1.0696
11066	E05	10030	6472	SHMT2	0.0292	1.0696
31008	E05	11463	119710	C11orf74	0.0292	1.0696
11015	C07	9070	7529	YWHAB	0.0292	1.0697
31026	D11	13857	89872	AQP10	0.0293	1.0697
51003	H01	52760	283349	RASSF3	0.0293	1.0698
51011	C04	54644	26586	CKAP2	0.0293	1.0698
11046	C09	2458	56257	MEPCE	0.0293	1.0698
11081	B11	3354	284912	LOC284912	0.0293	1.0698
31015	G07	12794	10190	TXNDC9	0.0293	1.0698
11019	B09	4682	6182	MRPL12	0.0293	1.0698
51008	G06	55142	8938	BAIAP3	0.0293	1.0699
51005	A04	56799	NA	NA	0.0293	1.0699
51026	D02	56921	6238	RRBP1	0.0293	1.0699
51008	A08	55204	29881	NPC1L1	0.0293	1.0699
11014	F02	7065	60493	FASTKD5	0.0293	1.0699
11057	A11	4919	79723	SUV39H2	0.0293	1.0699
11078	B11	2055	11218	DDX20	0.0294	1.0699
11073	D01	8932	56893	UBQLN4	0.0294	1.0700
31020	A05	13091	3176	HNMT	0.0294	1.0700
11085	D09	3296	307	ANXA4	0.0294	1.0700
31033	D08	14855	2029	ENSA	0.0294	1.0701
11022	B11	7858	7029	TFDP2	0.0294	1.0701
51008	G08	53677	55075	UACA	0.0294	1.0701
51021	G02	56318	54084	C21orf29	0.0294	1.0701
51031	G01	55507	151325	MYADML	0.0294	1.0702

11083	B03	8120	4062	LY6H	0.0295	1.0702
11053	B03	4402	83592	AKR1E2	0.0295	1.0702
11077	C03	1748	91833	WDR20	0.0295	1.0702
31037	B04	12416	9924	PAN2	0.0295	1.0702
11077	D03	1316	29068	ZBTB44	0.0295	1.0702
11055	F12	507	54996	MOSC2	0.0295	1.0703
11079	E08	3039	9879	DDX46	0.0295	1.0703
51011	B06	54877	29943	PADI1	0.0295	1.0703
11054	D02	7302	2208	FCER2	0.0295	1.0703
11074	C05	8729	57018	CCNL1	0.0295	1.0703
51010	G01	53810	10156	RASA4	0.0295	1.0703
51021	E05	55872	114805	GALNT13	0.0295	1.0703
31009	A06	11332	253152	EPHX4	0.0295	1.0704
31002	F04	10412	59338	PLEKHA1	0.0295	1.0704
11013	B03	873	80255	SLC35F5	0.0295	1.0704
11058	D04	4215	633	BGN	0.0295	1.0704
11088	G10	411	6734	SRPR	0.0296	1.0704
31011	H05	12173	6168	RPL37A	0.0296	1.0705
11020	A05	7221	205	AK4	0.0296	1.0706
11016	A01	5736	84791	C1orf97	0.0297	1.0707
11088	B12	2916	10712	FAM189B	0.0297	1.0708
11017	G05	6436	55110	MAGOHB	0.0297	1.0708
31034	E01	14834	3778	KCNMA1	0.0297	1.0708
31003	D03	10558	9910	RABGAP1L	0.0297	1.0709
11062	F02	5896	191	AHCY	0.0297	1.0709
11018	F08	5370	6048	RNF5	0.0298	1.0709
11087	D11	9458	84106	PRAM1	0.0298	1.0709
31003	H05	10687	163059	ZNF433	0.0298	1.0710
11060	G04	247	55884	WSB2	0.0298	1.0710
51008	A12	56890	51594	NBAS	0.0298	1.0711
51001	A01	55989	100144596	NCRNA00029	0.0298	1.0711
31044	H04	7437	3185	HNRNPF	0.0298	1.0711
31020	B05	13291	79712	GTDC1	0.0298	1.0711
51023	A11	54634	4843	NOS2	0.0298	1.0711
51026	D03	56258	492	ATP2B3	0.0299	1.0712
31022	A01	13354	149986	LSM14B	0.0299	1.0712
51026	G09	56695	253769	WDR27	0.0299	1.0712
11069	H03	4735	55802	DCP1A	0.0299	1.0713
51027	C02	55383	204962	SLC44A5	0.0299	1.0713
11053	H08	4313	10362	HMG20B	0.0299	1.0713
51025	D09	53197	23368	PPP1R13B	0.0299	1.0714
11047	B08	7038	56616	DIABLO	0.0299	1.0714
51015	G03	52803	134829	CLVS2	0.0300	1.0715
11055	D03	8522	22977	AKR7A3	0.0300	1.0715

11084	F11	6659	54165	DCUNID1	0.0300	1.0715
11006	H04	5433	3921	RPSA	0.0300	1.0716
11055	F03	4412	79173	C19orf57	0.0300	1.0716
11026	F11	788	51639	SF3B14	0.0301	1.0716
31016	B11	12735	3242	HPD	0.0301	1.0717
11039	D11	1360	28968	SLC6A16	0.0301	1.0717
11050	G03	2205	23498	HAAO	0.0301	1.0717
11003	F04	5213	84836	ABHD14B	0.0301	1.0717
11020	F11	3680	9526	MPDU1	0.0301	1.0717
11034	G02	7921	51102	MECR	0.0301	1.0718
11009	F08	8836	3785	KCNQ2	0.0301	1.0718
11078	B09	6160	9877	ZC3H11A	0.0301	1.0718
31031	H03	14647	337867	UBAC2	0.0302	1.0719
11087	B01	1930	84938	ATG4C	0.0302	1.0719
11021	B04	7624	3001	GZMA	0.0302	1.0720
11065	B07	7841	995	CDC25C	0.0302	1.0720
11061	E12	147	5817	PVR	0.0302	1.0720
51011	A01	54481	8754	ADAM9	0.0302	1.0720
11027	A09	7983	29097	CNIH4	0.0302	1.0721
51023	A04	56323	10149	GPR64	0.0303	1.0721
51012	F02	54928	9389	SLC22A14	0.0303	1.0722
11053	C01	783	60496	AASDHPPT	0.0303	1.0722
11068	E11	8036	800	CALD1	0.0303	1.0722
11022	C02	7213	9047	SH2D2A	0.0303	1.0722
11086	F08	6894	7027	TFDP1	0.0303	1.0723
11089	C04	1115	9362	CPNE6	0.0303	1.0724
11057	E01	9466	1524	CX3CR1	0.0303	1.0724
11067	D01	7315	55735	DNAJC11	0.0304	1.0725
11050	G08	1828	140461	ASB8	0.0304	1.0726
11022	H08	3643	8890	EIF2B4	0.0305	1.0726
11080	D11	6043	7407	VAR5	0.0305	1.0727
11059	C06	1963	11103	KRR1	0.0305	1.0727
31033	C11	14844	283	ANG	0.0305	1.0727
11044	A06	8306	58498	MYL7	0.0305	1.0727
11086	C10	7669	3597	IL13RA1	0.0305	1.0727
11006	E01	9211	348487	FAM131C	0.0305	1.0727
51011	G02	52976	92255	LMBRD2	0.0305	1.0728
11066	C01	727	1802	DPH2	0.0306	1.0729
11009	A09	3250	10121	ACTR1A	0.0306	1.0729
31018	C12	12873	148738	HFE2	0.0306	1.0729
11051	A09	4379	55061	SUSD4	0.0306	1.0729
11005	G10	7545	10077	TSPAN32	0.0306	1.0730
11006	G07	7179	6187	RPS2	0.0306	1.0730
11046	F04	6925	79056	PRRG4	0.0306	1.0731

31002	G06	10456	93979	CPA5	0.0307	1.0732
11007	E05	419	10067	SCAMP3	0.0307	1.0732
31005	E02	10994	554236	DPY19L2P1	0.0307	1.0732
31044	E01	8990	100132288	LOC100132288	0.0307	1.0732
51035	A02	54415	84107	ZIC4	0.0307	1.0733
11011	C05	2889	7434	VIPR2	0.0308	1.0734
31008	D02	11327	51491	NOP16	0.0308	1.0735
11057	B01	856	170082	TCEANC	0.0308	1.0735
11017	F08	9179	10712	FAM189B	0.0308	1.0735
11002	G09	8280	136	ADORA2B	0.0308	1.0735
31028	C01	14443	93099	DMKN	0.0308	1.0735
11074	D11	5729	7352	UCP3	0.0308	1.0736
11070	A03	9291	115362	GBP5	0.0308	1.0736
11039	B09	7353	25862	USP49	0.0309	1.0736
31007	G06	10970	165215	FAM171B	0.0309	1.0737
11074	H06	4168	1810	DR1	0.0309	1.0737
11015	G04	5581	51569	UFM1	0.0309	1.0737
31008	A11	11482	29777	ABT1	0.0309	1.0737
11019	C01	6971	79637	ARMC7	0.0309	1.0737
31027	E12	15019	57552	NCEH1	0.0309	1.0737
11059	A12	4483	84287	ZDHHC16	0.0309	1.0738
11012	B12	2910	51421	AMOTL2	0.0309	1.0738
11067	E03	6949	3035	HARS	0.0309	1.0738
11058	G08	9815	11033	ADAP1	0.0309	1.0738
31010	C08	11545	23295	MGRN1	0.0310	1.0739
11021	F07	3577	55192	DNAJC17	0.0310	1.0740
51015	H03	53004	79722	ANKRD55	0.0310	1.0741
51035	A10	54011	8787	RGS9	0.0311	1.0741
11044	B11	4533	4715	NDUFB9	0.0311	1.0741
31017	G07	13050	50807	ASAP1	0.0311	1.0741
31008	B07	11414	399665	FAM102A	0.0311	1.0742
51005	H02	53993	6489	ST8SIA1	0.0311	1.0742
11062	C05	1069	3783	KCNN4	0.0311	1.0742
11074	F11	1004	127829	ARL8A	0.0311	1.0742
31004	F11	11033	6137	RPL13	0.0311	1.0743
31042	H04	6343	9071	CLDN10	0.0311	1.0743
11081	F10	8658	832	CAPZB	0.0311	1.0743
11057	G06	8416	1641	DCX	0.0311	1.0744
51004	B06	55088	442247	RFPL4B	0.0312	1.0744
11022	H11	6089	79053	ALG8	0.0312	1.0744
11042	G03	8304	26279	PLA2G2D	0.0312	1.0744
31040	D07	10124	55337	C19orf66	0.0312	1.0744
11057	C01	473	7852	CXCR4	0.0312	1.0745
31004	E02	10627	27136	MORC1	0.0312	1.0745

11030	A11	1071	65260	C1orf163	0.0312	1.0745
11079	G10	9493	699	BUB1	0.0312	1.0745
11037	F08	3378	79085	SLC25A23	0.0312	1.0745
51005	A01	54134	51270	TFDP3	0.0312	1.0746
31012	C07	11854	348110	C15orf38	0.0312	1.0746
31007	A11	11803	30834	ZNRD1	0.0313	1.0746
31017	A03	12670	65123	INTS3	0.0313	1.0746
11076	E08	4330	334	APLP2	0.0313	1.0747
51002	F07	52922	26223	FBXL21	0.0313	1.0747
11001	A02	168	6157	RPL27A	0.0313	1.0747
11071	F01	601	3985	LIMK2	0.0313	1.0748
11032	D12	8340	2487	FRZB	0.0313	1.0748
11087	A03	3949	79171	RBM42	0.0314	1.0749
31008	B08	11359	343	AQP8	0.0314	1.0749
51023	F07	53574	84893	FBXO18	0.0314	1.0750
51004	A10	56044	339457	C1orf222	0.0314	1.0750
11012	A05	3619	55238	SLC38A7	0.0314	1.0750
11002	A06	261	90226	UCN2	0.0314	1.0751
11083	H04	9289	219995	MS4A15	0.0314	1.0751
11002	D10	9220	79956	ERMP1	0.0315	1.0751
31044	A04	3333	10452	TOMM40	0.0315	1.0751
11060	B03	5922	79075	DSCC1	0.0315	1.0752
11008	B04	5666	2357	FPR1	0.0315	1.0752
11062	H01	2391	5000	ORC4L	0.0315	1.0752
11008	E04	4680	2630	GBAP1	0.0316	1.0754
51023	C08	56061	55201	MAP1S	0.0316	1.0754
11088	D06	9952	64089	SNX16	0.0316	1.0754
11009	D06	2745	7268	TTC4	0.0316	1.0754
11019	D11	7788	79763	ISOC2	0.0316	1.0754
11058	F05	9429	3284	HSD3B2	0.0316	1.0755
11012	B05	6644	26580	BSCL2	0.0316	1.0755
11085	F08	3843	79184	BRCC3	0.0316	1.0755
11029	F06	5232	27335	EIF3K	0.0316	1.0755
51022	F08	55868	5284	PIGR	0.0316	1.0755
31030	H05	14204	9681	DEPDC5	0.0317	1.0757
11009	A01	903	8405	SPOP	0.0317	1.0757
51035	H09	54829	2155	F7	0.0317	1.0757
31016	B04	12544	7391	USF1	0.0317	1.0757
11084	E09	3331	29844	TFPT	0.0317	1.0757
51012	D02	53933	10335	MRVII	0.0317	1.0757
11047	D07	6269	134288	TMEM174	0.0317	1.0757
11017	C03	4677	6229	RPS24	0.0317	1.0758
31033	C08	14947	2498	FTHL3	0.0317	1.0758
11073	B04	3887	25873	RPL36	0.0317	1.0758

11032	E10	7568	147015	DHRS13	0.0317	1.0758
11043	G11	4492	6880	TAF9	0.0318	1.0759
11086	C03	4431	7456	WIPF1	0.0318	1.0760
11054	C01	2211	157773	C8orf48	0.0318	1.0760
31010	B12	11338	283431	GAS2L3	0.0318	1.0760
11075	G10	5967	6009	RHEB	0.0318	1.0760
11029	C03	8224	79794	C12orf49	0.0318	1.0760
11051	B02	553	84933	C8orf76	0.0318	1.0761
11013	D09	8105	3854	KRT6B	0.0319	1.0761
11003	B06	9738	11094	C9orf7	0.0319	1.0761
31002	D02	10358	9715	FAM131B	0.0319	1.0762
11042	D12	5549	8674	VAMP4	0.0319	1.0762
11018	C04	6671	6500	SKP1	0.0319	1.0762
11004	G02	673	7879	RAB7A	0.0319	1.0763
51014	D10	52999	253782	LASS6	0.0319	1.0763
11049	E05	8724	80347	COASY	0.0319	1.0763
11022	E01	7815	7429	VIL1	0.0319	1.0763
11069	C11	7699	2176	FANCC	0.0320	1.0764
31026	B10	13896	51032	CELA2B	0.0320	1.0764
11036	A07	1477	254268	AKNAD1	0.0320	1.0764
11079	H07	3630	4967	OGDH	0.0320	1.0765
11051	C01	5930	9337	CNOT8	0.0320	1.0765
11047	C11	1562	143471	PSMA8	0.0320	1.0765
11044	B12	236	11065	UBE2C	0.0320	1.0766
11075	D09	5810	387	RHOA	0.0320	1.0766
11072	B08	7305	10717	AP4B1	0.0321	1.0766
11061	H07	120	57559	STAMBPL1	0.0321	1.0766
31005	H03	11144	9671	WSCD2	0.0321	1.0766
31042	C09	5587	6696	SPP1	0.0321	1.0767
31042	D11	5679	51319	RSRC1	0.0321	1.0767
31008	F12	11550	9781	RNF144A	0.0321	1.0767
51031	D10	56139	120939	C12orf59	0.0321	1.0767
31002	C06	10313	124044	SPATA2L	0.0321	1.0768
51009	B07	53094	2890	GRIA1	0.0321	1.0768
11046	A12	6930	199857	ALG14	0.0321	1.0768
11071	E04	6548	55734	ZFP64	0.0322	1.0769
11022	E03	7573	5002	SLC22A18	0.0322	1.0769
11075	D10	5710	9659	PDE4DIP	0.0322	1.0769
11008	D12	2855	81847	RNF146	0.0322	1.0769
11076	C06	4334	5533	PPP3CC	0.0322	1.0770
11036	E10	3253	3875	KRT18	0.0322	1.0770
31011	E03	11600	7301	TYRO3	0.0322	1.0770
31002	B01	10253	284716	RIMKLA	0.0322	1.0771
11048	F02	204	51315	KRCC1	0.0322	1.0771

51005	B07	54705	317701	VN1R2	0.0323	1.0771
51011	A04	54495	79054	TRPM8	0.0323	1.0771
11047	F09	7072	116238	TLCD1	0.0323	1.0772
51014	G01	52833	375611	SLC26A5	0.0323	1.0772
31031	E06	14528	221938	MMD2	0.0323	1.0772
11005	B11	8994	10712	FAM189B	0.0323	1.0772
51035	A04	54789	2538	G6PC	0.0323	1.0772
31026	C09	13844	55554	KLK15	0.0323	1.0772
11017	D02	3447	1174	AP1S1	0.0323	1.0773
51005	H06	54004	9210	BMP15	0.0323	1.0773
51029	C11	55331	55148	UBR7	0.0323	1.0773
11006	B01	6668	3127	HLA-DRB5	0.0324	1.0774
11057	B04	8452	2358	FPR2	0.0324	1.0774
11022	F06	7891	8723	SNX4	0.0324	1.0775
51008	F06	55134	23325	KIAA1033	0.0324	1.0776
11008	H08	6864	2752	GLUL	0.0324	1.0776
11019	H07	9119	81609	SNX27	0.0325	1.0776
31016	H02	12472	2961	GTF2E2	0.0325	1.0776
31007	G07	11189	55898	UNC45A	0.0325	1.0776
11075	C04	3795	11079	RER1	0.0325	1.0777
11080	C05	6049	83696	TRAPPC9	0.0325	1.0777
51005	B03	54496	317705	VN1R5	0.0325	1.0778
11077	D01	1061	1768	DNAH6	0.0325	1.0778
51034	A01	54562	80742	PRR3	0.0325	1.0778
11067	B01	9806	1577	CYP3A5	0.0325	1.0778
11086	E06	6148	56904	SH3GLB2	0.0326	1.0778
51018	C04	56777	337867	UBAC2	0.0326	1.0779
51005	F12	56278	1146	CHRNA2	0.0326	1.0779
31014	F04	12153	83716	CRISPLD2	0.0326	1.0780
51020	E01	56579	150472	CBWD2	0.0326	1.0781
11045	E03	251	396	ARHGDI1	0.0326	1.0781
11027	B09	353	11170	FAM107A	0.0327	1.0781
31002	F11	10321	125206	SLC5A10	0.0327	1.0781
11001	A07	228	9168	TMSB10	0.0327	1.0782
11006	G09	8171	84365	MKI67IP	0.0327	1.0782
51029	B10	55275	10342	TFG	0.0327	1.0782
11001	F11	10166	2330	FMO5	0.0327	1.0782
11028	E11	1991	127540	HMGB4	0.0327	1.0782
31042	D09	5618	9453	GGPS1	0.0328	1.0783
31033	G05	14824	552900	BOLA2	0.0328	1.0784
11043	E12	5504	29087	THYN1	0.0328	1.0784
11081	B04	9163	10019	SH2B3	0.0328	1.0785
11054	A11	118	6888	TALDO1	0.0328	1.0785
11052	F02	4019	1019	CDK4	0.0329	1.0786

31007	F06	10949	2015	EMR1	0.0329	1.0786
31043	B04	7878	652968	GATSL3	0.0329	1.0786
11001	A11	8790	56063	C1orf91	0.0329	1.0787
11044	G08	6946	64065	PERP	0.0329	1.0787
11037	C06	3733	2288	FKBP4	0.0329	1.0787
11065	C07	7391	3032	HADHB	0.0329	1.0787
11088	A05	7880	56243	KIAA1217	0.0329	1.0787
11081	H09	2880	8682	PEA15	0.0330	1.0788
51001	E09	54474	6887	TAL2	0.0330	1.0789
11026	D08	3352	6164	RPL34	0.0330	1.0789
51027	G09	55493	55857	PLK1S1	0.0330	1.0789
11079	E10	8331	25890	ABI3BP	0.0330	1.0791
11075	D03	1684	51013	EXOSC1	0.0331	1.0791
51009	E06	54341	5774	PTPN3	0.0331	1.0792
51003	F02	54347	56344	CABP5	0.0331	1.0792
11082	C08	2242	284440	LOC284440	0.0331	1.0792
31043	A05	6694	10586	MAB21L2	0.0331	1.0793
11017	E03	9056	54778	RNF111	0.0331	1.0793
11003	B04	5844	694	BTG1	0.0332	1.0793
11015	G03	5391	84848	MGC16121	0.0332	1.0794
51027	C08	56647	259307	IL4I1	0.0332	1.0794
11052	F11	1424	84572	GNPTG	0.0332	1.0794
31011	G04	11820	26064	RAI14	0.0332	1.0794
51031	F11	56495	121549	ASCL4	0.0332	1.0794
11057	B05	2695	84321	THOC3	0.0332	1.0795
11071	G10	8299	10044	SH2D3C	0.0332	1.0795
11006	G08	1496	645455	CEP170L	0.0332	1.0795
11004	G11	8116	192683	SCAMP5	0.0332	1.0795
11024	H03	9292	399979	SNX19	0.0332	1.0795
11052	D09	4187	54784	ALKBH4	0.0332	1.0796
11035	B11	1671	25953	PNKD	0.0333	1.0796
11045	E12	2998	6616	SNAP25	0.0333	1.0796
11037	F01	6580	11083	DIDO1	0.0333	1.0796
51011	F09	53613	3752	KCND3	0.0333	1.0797
11014	B02	2523	80020	FOXRED2	0.0333	1.0797
11003	E11	5525	54469	ZFAND6	0.0333	1.0798
11009	B08	441	81608	FIP1L1	0.0333	1.0798
11080	H09	10044	9669	EIF5B	0.0334	1.0798
31038	G11	10101	84619	ZGPAT	0.0334	1.0799
11011	B06	422	2023	ENO1	0.0334	1.0799
11078	C02	7332	583	BBS2	0.0334	1.0799
31022	E03	13357	353513	VCY1B	0.0334	1.0799
11011	E06	3953	3995	FADS3	0.0334	1.0800
11018	B12	9064	26586	CKAP2	0.0334	1.0800

31002	A01	10662	55026	FAM70A	0.0334	1.0800
51024	A12	53359	25836	NIPBL	0.0335	1.0801
11018	B10	6384	51076	CUTC	0.0335	1.0801
11043	G08	2609	5831	PYCR1	0.0335	1.0802
31032	D03	14597	1600	DAB1	0.0335	1.0802
31003	C09	10639	83852	SETDB2	0.0335	1.0802
31004	F06	11002	442578	STAG3L3	0.0335	1.0803
51012	B09	54257	79782	LRRC31	0.0336	1.0803
51035	B04	54220	5460	POU5F1	0.0336	1.0804
51013	C10	54441	25794	FSCN2	0.0336	1.0804
11087	D06	624	5725	PTBP1	0.0336	1.0804
31033	E04	14794	58492	ZNF77	0.0336	1.0804
11020	B10	5653	84830	C6orf105	0.0336	1.0804
51003	C04	53065	3586	IL10	0.0336	1.0805
11085	A10	3926	56654	NPDC1	0.0336	1.0805
11085	A11	691	10726	NUDC	0.0336	1.0805
11069	B03	10107	51720	UIMC1	0.0336	1.0805
11016	H11	7865	8862	APLN	0.0336	1.0805
11084	H07	958	51700	CYB5R2	0.0336	1.0805
11035	D04	2000	11228	RASSF8	0.0337	1.0806
11002	C10	8469	79777	ACBD4	0.0337	1.0806
51002	A06	53015	434	ASIP	0.0337	1.0806
11024	E01	9228	29954	POMT2	0.0337	1.0806
11029	F01	1120	54965	PIGX	0.0337	1.0807
11068	E03	2234	91133	L3MBTL4	0.0337	1.0807
11055	B03	5942	124540	MSI2	0.0337	1.0807
11039	F12	7835	10979	FERMT2	0.0337	1.0807
51018	B10	56115	22919	MAPRE1	0.0337	1.0808
31040	D02	1226	9867	PJA2	0.0338	1.0808
31018	F03	13088	6590	SLPI	0.0338	1.0809
51035	B09	53639	57528	KCTD16	0.0338	1.0809
11004	G03	1808	79074	C2orf49	0.0338	1.0809
11079	C07	9657	9793	CKAP5	0.0338	1.0810
11047	G10	6953	79666	PLEKHF2	0.0338	1.0810
11042	F12	5812	5320	PLA2G2A	0.0338	1.0810
11088	B01	9349	83897	KRTAP3-2	0.0339	1.0811
11076	B08	1341	3840	KPNA4	0.0339	1.0812
31028	D04	14118	57171	DOLPP1	0.0339	1.0812
31039	D03	9614	10044	SH2D3C	0.0339	1.0812
11073	D11	4219	404033	FLJ34077	0.0340	1.0814
31040	A04	9210	23630	KCNE1L	0.0340	1.0814
11019	G07	7886	91442	C19orf40	0.0340	1.0815
51016	G11	55997	91869	RFT1	0.0340	1.0815
51022	F01	56262	64101	LRRC4	0.0341	1.0816

11052	G05	2447	57179	KIAA1191	0.0341	1.0817
11050	F01	1123	25830	SULT4A1	0.0341	1.0817
11086	C08	6639	56659	KCNK13	0.0341	1.0817
31009	G08	11455	128209	KLF17	0.0341	1.0817
11069	E07	4171	10758	TRAF3IP2	0.0342	1.0818
51021	C03	55827	10720	UGT2B11	0.0342	1.0819
11063	C07	160	3200	HOXA3	0.0342	1.0819
51028	A06	53381	440138	ALG11	0.0342	1.0819
11037	E04	6534	54971	BANP	0.0342	1.0819
11064	D03	2712	4783	NFIL3	0.0342	1.0820
11007	D12	1874	51109	RDH11	0.0342	1.0820
11016	B04	7997	6284	S100A13	0.0342	1.0820
11012	B03	3620	56052	ALG1	0.0342	1.0820
31037	F09	14411	388965	FUNDC2P2	0.0342	1.0820
51004	H11	54124	254158	CXorf58	0.0343	1.0821
11021	D09	5704	1353	COX11	0.0343	1.0821
11054	E03	6138	4070	TACSTD2	0.0343	1.0821
11045	A09	9284	22797	TFEC	0.0343	1.0821
11060	E08	7780	51547	SIRT7	0.0343	1.0821
51029	G11	56462	84109	QRFP	0.0343	1.0821
51023	C10	54832	23431	AP4E1	0.0343	1.0821
11064	F07	8725	63893	UBE2O	0.0343	1.0821
11029	A03	3126	11072	DUSP14	0.0343	1.0821
11050	E04	8919	84858	ZNF503	0.0343	1.0822
11046	B11	4640	84293	C10orf58	0.0343	1.0822
11025	B07	9613	23175	LPIN1	0.0343	1.0822
51012	E10	54292	53630	BCMO1	0.0343	1.0822
51025	G05	53228	374977	C1orf175	0.0343	1.0822
11049	A12	8573	4907	NT5E	0.0343	1.0823
11054	G01	1846	26240	FAM50B	0.0343	1.0823
51029	G02	56826	9407	TMPRSS11D	0.0344	1.0823
51032	B05	55528	55246	CCDC25	0.0344	1.0823
11045	C01	1872	29887	SNX10	0.0344	1.0824
11051	E07	5160	56910	STARD7	0.0344	1.0824
11019	G02	7145	25880	TMEM186	0.0344	1.0824
11051	F10	2744	29088	MRPL15	0.0344	1.0824
11007	H03	6936	4841	NONO	0.0344	1.0824
11049	G03	6220	23659	PLA2G15	0.0344	1.0825
11015	G09	6315	57226	LYRM2	0.0344	1.0825
31037	E08	14218	441150	C6orf226	0.0344	1.0825
11003	D03	9904	2882	GPX7	0.0345	1.0826
11037	E10	7439	10152	ABI2	0.0345	1.0827
11015	G06	5523	5349	FXYD3	0.0345	1.0828
31038	H04	14269	342132	ZNF774	0.0346	1.0829

51027	H02	53173	2686	GGT7	0.0346	1.0829
11016	C05	7739	2034	EPAS1	0.0346	1.0830
11060	E02	7289	7107	GPR137B	0.0346	1.0830
11035	E11	3270	8498	RANBP3	0.0347	1.0831
11073	F07	1690	222255	ATXN7L1	0.0347	1.0831
11077	B01	1327	8395	PIP5K1B	0.0347	1.0831
11081	F07	6974	55505	NOP10	0.0347	1.0832
11088	A08	9491	4542	MYO1F	0.0347	1.0832
51001	F10	52621	83740	H2AFB3	0.0347	1.0833
51010	A02	53129	84230	LRRC8C	0.0347	1.0833
31006	F05	10952	113457	TUBA3D	0.0347	1.0833
11034	E04	5387	23212	RRS1	0.0347	1.0833
11068	D05	4952	6572	SLC18A3	0.0348	1.0834
11055	A06	4085	5500	PPP1CB	0.0348	1.0834
51008	A02	53931	9705	ST18	0.0348	1.0835
51008	C04	53603	6599	SMARCC1	0.0348	1.0836
31008	D09	11546	140680	C20orf96	0.0349	1.0836
31010	G07	11750	84124	ZNF394	0.0349	1.0836
11045	E09	6413	29093	MRPL22	0.0349	1.0836
11003	H03	9855	140290	TCP10L	0.0349	1.0836
31019	E04	13187	5281	PIGF	0.0349	1.0837
11042	E06	8624	84971	ATG4D	0.0349	1.0838
51004	D07	53854	64077	LHPP	0.0349	1.0838
11070	D07	126	10548	TM9SF1	0.0350	1.0838
31006	G07	11114	1890	TYMP	0.0350	1.0838
31043	D01	4933	2039	EPB49	0.0350	1.0838
51013	F11	52816	160428	ALDH1L2	0.0350	1.0838
11079	D09	10232	5097	PCDH1	0.0350	1.0839
31003	F07	10453	8796	SCEL	0.0350	1.0839
11073	B03	4346	7356	SCGB1A1	0.0350	1.0839
11016	E05	3387	522	ATP5J	0.0350	1.0840
11047	C01	3832	51154	MRTO4	0.0350	1.0840
11008	C02	2804	6094	ROM1	0.0350	1.0840
31010	F04	11466	7360	UGP2	0.0351	1.0841
31025	G04	13515	56123	PCDHB13	0.0351	1.0841
11084	D12	8349	474354	LRRC18	0.0351	1.0841
11073	F02	8869	51710	ZNF44	0.0351	1.0842
51029	D10	56796	55998	NXF5	0.0351	1.0842
11036	A12	8354	79831	JMJD5	0.0351	1.0842
11071	E05	3561	9945	GFPT2	0.0351	1.0843
51031	G05	56581	54550	NECAB2	0.0352	1.0843
11004	F08	702	50862	RNF141	0.0352	1.0844
11014	E07	2913	4849	CNOT3	0.0352	1.0844
31010	E08	11697	55164	SHQ1	0.0352	1.0844

11035	E09	1697	151393	FAM82A1	0.0352	1.0845
11052	F01	3876	6678	SPARC	0.0352	1.0845
11065	B11	5132	2937	GSS	0.0352	1.0845
51023	F10	54430	109	ADCY3	0.0353	1.0846
11016	A04	5832	53826	FXVD6	0.0353	1.0846
31041	A04	4176	83475	DOHH	0.0353	1.0846
11040	B06	4901	84808	C1orf170	0.0353	1.0847
11010	F06	2723	4781	NFIB	0.0353	1.0847
11020	C02	5989	598	BCL2L1	0.0353	1.0848
31016	A07	12469	6903	TBCC	0.0354	1.0849
11050	F03	4111	553115	PEF1	0.0354	1.0849
31025	D11	14085	8332	HIST1H2AL	0.0354	1.0849
11065	A09	5758	2327	FMO2	0.0354	1.0849
11003	A04	9021	5378	PMS1	0.0354	1.0850
31038	B10	5151	27173	SLC39A1	0.0354	1.0850
11014	D06	6036	29889	GNL2	0.0355	1.0851
11039	E06	2301	317781	DDX51	0.0355	1.0851
11044	C10	6810	6001	RGS10	0.0355	1.0851
11068	H02	7881	90933	TRIM41	0.0355	1.0851
31014	G02	12181	140459	ASB6	0.0355	1.0852
11045	A03	41	3148	HMGB2	0.0355	1.0852
31008	A10	11442	286336	FAM78A	0.0355	1.0852
31012	F09	11872	7168	TPM1	0.0355	1.0852
51006	H06	54284	283208	P4HA3	0.0355	1.0853
11086	D07	7857	6769	STAC	0.0356	1.0854
11066	F07	7011	80254	CEP63	0.0356	1.0854
11017	E08	6226	1469	CST1	0.0356	1.0854
31008	G06	11367	23201	FAM168A	0.0356	1.0854
11065	B08	2903	115557	GEFT	0.0356	1.0855
11060	G07	6802	3884	KRT33B	0.0356	1.0855
31005	A02	10860	54097	FAM3B	0.0356	1.0855
51008	B08	55162	55835	CENPJ	0.0356	1.0855
11007	G06	7261	10385	BTN2A2	0.0356	1.0855
11074	A01	4849	53938	PPIL3	0.0357	1.0856
11052	B09	4134	23587	C17orf81	0.0357	1.0857
11030	H04	6076	29916	SNX11	0.0357	1.0857
11070	G07	7863	81788	NUAK2	0.0357	1.0857
11069	G02	7138	8324	FZD7	0.0357	1.0857
11039	A05	2587	113878	DTX2	0.0357	1.0858
11013	E05	4655	6734	SRPR	0.0357	1.0858
11063	G10	9849	2563	GABRD	0.0358	1.0859
31005	A04	11260	51535	PPHLN1	0.0358	1.0859
31022	F10	13326	153527	ZMAT2	0.0358	1.0859
11008	B03	3893	11344	TWF2	0.0358	1.0859

11025	E02	4975	64783	RBM15	0.0358	1.0860
11077	E07	3749	5859	QARS	0.0358	1.0860
51033	D05	53407	4946	OAZ1	0.0359	1.0861
51035	D07	54744	2651	GCNT2	0.0359	1.0861
11027	H01	5366	25901	CCDC28A	0.0359	1.0862
51002	G05	52594	285525	YIPF7	0.0359	1.0862
11040	D11	5490	10793	ZNF273	0.0359	1.0862
51032	G03	55696	6209	RPS15	0.0360	1.0863
11066	B09	7884	26010	SPATS2L	0.0360	1.0863
11013	F08	4925	8829	NRP1	0.0360	1.0863
11057	G08	100	23582	CCNDBP1	0.0360	1.0864
51020	H02	56772	151258	SLC38A11	0.0360	1.0864
11041	C02	5805	9616	RNF7	0.0360	1.0864
11063	G06	2456	55118	CRTAC1	0.0360	1.0865
11035	H01	6149	81671	TMEM49	0.0360	1.0865
11015	A05	9041	54921	CHTF8	0.0360	1.0865
31043	D03	7882	5292	PIM1	0.0361	1.0866
11056	H07	4224	80345	ZSCAN16	0.0361	1.0866
11087	F09	5222	79892	C10orf119	0.0361	1.0867
11065	E11	9331	158067	C9orf98	0.0361	1.0868
11016	B08	5589	336	APOA2	0.0362	1.0868
51011	H09	54886	1103	CHAT	0.0362	1.0869
31039	H03	417	63827	BCAN	0.0362	1.0869
11046	D02	1042	54826	GIN1	0.0362	1.0870
31023	B05	13479	80199	FUZ	0.0362	1.0870
11047	D05	3880	6188	RPS3	0.0362	1.0870
11050	D12	1487	79949	C10orf81	0.0363	1.0871
51024	H03	55168	9758	FRMPD4	0.0363	1.0872
11077	B11	4043	56997	CABC1	0.0363	1.0872
11061	D12	2720	4013	VWA5A	0.0363	1.0873
11050	C04	700	10456	HAX1	0.0364	1.0873
11041	E12	1007	152015	ROPN1B	0.0364	1.0874
31029	F02	14261	27327	TNRC6A	0.0364	1.0875
31006	F04	10818	285203	C3orf64	0.0364	1.0875
11017	D11	3793	55969	C20orf24	0.0364	1.0875
31011	H06	12185	4696	NDUFA3	0.0365	1.0876
11016	C10	5540	5620	PRM2	0.0365	1.0876
11062	A05	8192	93183	PIGM	0.0365	1.0876
51030	C12	55554	1854	DUT	0.0365	1.0876
11034	A11	6299	9447	AIM2	0.0365	1.0876
11001	E08	196	155066	ATP6V0E2	0.0365	1.0877
11057	E09	7180	56256	SERTAD4	0.0365	1.0877
31023	B10	13510	254427	C10orf47	0.0365	1.0877
11026	E11	3164	2029	ENSA	0.0365	1.0877

51001	G11	54618	389084	C2orf82	0.0365	1.0877
11072	D10	490	64218	SEMA4A	0.0366	1.0878
31006	F07	10857	255877	BCL6B	0.0366	1.0878
11059	C07	9818	6439	SFTPB	0.0366	1.0879
31021	A10	12923	5897	RAG2	0.0366	1.0879
11050	D08	1865	131408	FAM131A	0.0366	1.0880
51014	G04	52785	124590	USH1G	0.0366	1.0880
11074	E09	8661	147906	DACT3	0.0366	1.0880
11055	G04	5473	10539	GLRX3	0.0367	1.0882
31018	E03	13303	54741	LEPROT	0.0367	1.0882
31043	E04	6691	64748	LPPR2	0.0367	1.0882
31003	C12	10470	339327	ZNF546	0.0367	1.0882
51024	E04	56295	284434	NWD1	0.0367	1.0882
11086	H10	6026	11133	KPTN	0.0367	1.0882
51002	E03	52654	2995	GYPC	0.0367	1.0883
11081	C03	7503	9168	TMSB10	0.0368	1.0884
31001	B02	10295	3512	IGJ	0.0368	1.0884
31032	H09	14744	284	ANGPT1	0.0368	1.0885
31014	C07	12157	525	ATP6V1B1	0.0368	1.0885
11053	G08	2941	94039	ZNF101	0.0368	1.0885
31042	D03	5493	51136	RNFT1	0.0368	1.0885
31039	F02	9274	84077	C3orf20	0.0368	1.0885
11064	H01	379	55325	UFSP2	0.0368	1.0885
11065	H10	5342	79792	GSDMD	0.0369	1.0886
31007	A06	11223	57691	KIAA1586	0.0369	1.0886
31037	D03	12497	11100	HNRNPUL1	0.0369	1.0887
11030	F10	3631	5714	PSMD8	0.0369	1.0887
31036	C01	10828	644316	FLJ43315	0.0369	1.0888
31024	A05	13717	137964	AGPAT6	0.0369	1.0888
11044	E01	2919	2739	GLO1	0.0370	1.0889
11009	F09	5079	8703	B4GALT3	0.0370	1.0890
51032	G11	55612	145978	NCRNA00052	0.0370	1.0890
51034	B12	54603	170392	OIT3	0.0370	1.0890
51031	C11	55435	55425	KIAA1704	0.0371	1.0891
11089	F03	13	56996	SLC12A9	0.0371	1.0891
31008	D12	11717	10739	RFPL2	0.0371	1.0892
11037	G03	7447	1198	CLK3	0.0371	1.0892
11013	F12	7856	55684	C9orf86	0.0371	1.0892
31005	F06	11000	84193	SETD3	0.0371	1.0893
31041	G04	5950	4190	MDH1	0.0372	1.0893
11037	C02	7951	1650	DDOST	0.0372	1.0894
31004	C02	10437	5896	RAG1	0.0372	1.0894
11002	G08	5678	6392	SDHD	0.0372	1.0895
31026	B09	13795	4222	MEOX1	0.0372	1.0895

51004	G05	56131	8625	RFXANK	0.0373	1.0896
11017	G02	6368	199	AIF1	0.0373	1.0896
11085	E03	9773	64430	C14orf135	0.0373	1.0896
51027	C11	55502	5236	PGM1	0.0373	1.0896
11008	E08	3634	81029	WNT5B	0.0373	1.0896
11061	E06	2801	9051	PSTPIP1	0.0373	1.0897
11035	H05	1026	652	BMP4	0.0373	1.0897
51024	A05	55208	57529	RGAG1	0.0373	1.0897
11026	A03	8809	7639	ZNF85	0.0373	1.0897
51008	H02	53867	5290	PIK3CA	0.0373	1.0898
11086	E10	2584	7020	TFAP2A	0.0373	1.0898
11026	C02	9793	4731	NDUFV3	0.0374	1.0899
31012	B12	12171	1506	CTRL	0.0374	1.0899
11063	F10	8574	29761	USP25	0.0374	1.0899
51020	H11	56363	121278	TPH2	0.0374	1.0900
11034	G09	1409	139741	ACTRT1	0.0374	1.0900
31033	G09	14934	64581	CLEC7A	0.0375	1.0901
31027	G09	14158	51699	VPS29	0.0375	1.0901
11003	D09	6189	2760	GM2A	0.0375	1.0901
51008	H09	56073	577	BAI3	0.0375	1.0901
31023	A06	13509	8558	CDK10	0.0375	1.0902
11040	C06	8726	92912	UBE2Q2	0.0375	1.0902
31016	B02	12543	126526	C19orf47	0.0375	1.0902
11064	E10	10194	89870	TRIM15	0.0375	1.0902
11075	F11	5795	10944	C11orf58	0.0375	1.0903
11022	G08	3122	5226	PGD	0.0375	1.0903
51008	D05	54816	4437	MSH3	0.0375	1.0903
11070	G03	6676	27037	TRMT2A	0.0375	1.0903
51009	G08	53047	51593	SRRT	0.0376	1.0903
31006	B11	11010	2713	GK3P	0.0376	1.0904
11068	H05	9546	55530	SVOP	0.0376	1.0904
11062	F07	2792	64093	SMOC1	0.0376	1.0904
51006	C10	56844	56907	SPIRE1	0.0376	1.0905
31021	C12	13346	83657	DYNLRB2	0.0376	1.0905
11058	D01	8468	23219	FBXO28	0.0376	1.0905
11026	H01	4594	79033	ERI3	0.0376	1.0906
11007	C09	1656	57019	CIAPIN1	0.0376	1.0906
51029	A09	56678	3766	KCNJ10	0.0377	1.0906
11058	E06	8287	83879	CDCA7	0.0377	1.0906
11040	H01	5198	56943	ENY2	0.0377	1.0907
51017	B11	55766	10016	PDCD6	0.0377	1.0907
11032	G05	1216	83693	HSDL1	0.0377	1.0907
51002	C10	54810	138307	LCN8	0.0377	1.0908
11057	F08	10202	NA	NA	0.0377	1.0908

11055	C05	112	8574	AKR7A2	0.0377	1.0908
31043	A06	6699	1457	CSNK2A1	0.0378	1.0908
31017	B06	12652	53335	BCL11A	0.0378	1.0908
51032	D10	55399	29797	POM121L8P	0.0378	1.0908
31045	F05	9405	440173	LOC440173	0.0378	1.0909
31040	G08	8419	9034	CCRL2	0.0378	1.0909
51020	D12	56621	56242	ZNF253	0.0378	1.0909
11066	A01	9550	60680	CELF5	0.0378	1.0909
11007	B12	8876	825	CAPN3	0.0378	1.0909
11056	D05	8382	10663	CXCR6	0.0378	1.0910
31018	H04	13144	3641	INSL4	0.0378	1.0910
31041	A02	7694	147807	ZNF524	0.0378	1.0910
11060	B05	6585	51808	PHAX	0.0378	1.0910
11081	G11	6408	51124	IER3IP1	0.0378	1.0910
51030	H02	56753	913	CD1E	0.0378	1.0910
11015	B06	7384	NA	NA	0.0379	1.0911
11082	F11	3695	8337	HIST2H2AA3	0.0379	1.0911
11069	F04	8167	8195	MKKS	0.0379	1.0911
11018	F03	6976	80306	MED28	0.0379	1.0911
51002	C09	52791	153684	LOC153684	0.0379	1.0911
11001	H01	3075	93974	ATPIF1	0.0379	1.0912
31004	C03	10424	55345	C4orf21	0.0379	1.0912
11082	E06	2366	151477	C2orf52	0.0379	1.0912
11069	F06	9787	10133	OPTN	0.0379	1.0912
11068	E04	296	9070	ASH2L	0.0379	1.0913
51003	H06	52889	338809	C12orf74	0.0379	1.0913
51014	F10	52734	192134	B3GNT6	0.0379	1.0913
31008	F10	11587	51256	TBC1D7	0.0380	1.0913
31014	E03	11972	2002	ELK1	0.0380	1.0914
31006	G09	10919	84928	TMEM209	0.0380	1.0914
11071	G09	7205	2632	GBE1	0.0380	1.0914
51031	C02	55474	3514	IGKC	0.0380	1.0914
11076	C01	5698	5744	PTHLH	0.0380	1.0914
11067	G02	6722	6602	SMARCD1	0.0380	1.0915
51024	H11	53207	114788	CSMD3	0.0380	1.0915
51012	F08	52793	342908	ZNF404	0.0380	1.0915
11015	H08	3200	25994	HIGD1A	0.0380	1.0916
11073	G09	2585	6207	RPS13	0.0381	1.0916
11027	H02	6774	11145	PLA2G16	0.0381	1.0916
51021	C11	56808	3656	IRAK2	0.0381	1.0916
11078	B06	5402	80179	MYO19	0.0381	1.0917
11017	D03	6715	81572	PDRG1	0.0381	1.0917
51017	B05	55758	3596	IL13	0.0381	1.0917
11022	B10	7357	9404	LPXN	0.0381	1.0918

51009	B08	53122	222256	CDHR3	0.0381	1.0918
11011	G09	3693	7284	TUFM	0.0382	1.0918
11007	H10	7479	7517	XRCC3	0.0382	1.0919
11028	D09	2200	148423	C1orf52	0.0382	1.0919
11025	A12	1474	8495	PPFIBP2	0.0382	1.0919
31028	G02	14102	57642	COL20A1	0.0382	1.0920
51023	C03	55883	8549	LGR5	0.0382	1.0920
11060	H06	4435	6015	RING1	0.0382	1.0920
11056	D07	1844	3226	HOXC10	0.0382	1.0920
11063	F03	5140	5607	MAP2K5	0.0383	1.0921
11030	E01	10064	80333	KCNIP4	0.0383	1.0921
51025	F12	53306	23264	ZC3H7B	0.0383	1.0922
11068	D06	563	57568	SIPA1L2	0.0383	1.0922
51026	A02	53395	5514	PPP1R10	0.0383	1.0922
11041	G06	6481	8347	HIST1H2BC	0.0383	1.0922
11018	G05	7249	64841	GNPNAT1	0.0383	1.0922
11080	A02	4959	22	ABCB7	0.0383	1.0922
31024	C12	13630	116447	TOP1MT	0.0383	1.0922
11046	C10	3827	10775	POP4	0.0383	1.0923
11008	E10	412	57447	NDRG2	0.0384	1.0923
31029	D09	14273	10252	SPRY1	0.0384	1.0924
51016	B10	55759	5741	PTH	0.0384	1.0924
11058	E09	2512	85300	ATCAY	0.0384	1.0925
11006	H01	4624	23555	TSPAN15	0.0384	1.0925
31011	G07	12053	147804	LOC147804	0.0384	1.0925
11077	H09	2390	5358	PLS3	0.0384	1.0925
11054	F01	5564	902	CCNH	0.0385	1.0927
11039	C12	7322	2990	GUSB	0.0385	1.0927
11026	G08	3343	51247	PAIP2	0.0385	1.0928
11037	C05	8858	5979	RET	0.0386	1.0928
11037	E11	4001	27238	GPKOW	0.0386	1.0929
31032	D08	14816	60592	SCOC	0.0386	1.0929
11001	C10	531	1831	TSC22D3	0.0386	1.0929
11028	G08	1313	399818	METTL10	0.0386	1.0929
51008	C09	55130	79443	FYCO1	0.0386	1.0929
51011	A09	54752	387357	THEMIS	0.0386	1.0930
51018	D10	56518	386680	KRTAP10-5	0.0387	1.0931
31018	B11	13160	150684	COMMD1	0.0387	1.0931
11013	H02	8196	3312	HSPA8	0.0387	1.0933
11044	C11	7272	11163	NUDT4	0.0387	1.0933
11044	C05	439	727800	RNF208	0.0388	1.0933
51023	E06	55887	2895	GRID2	0.0388	1.0934
51002	F04	52563	8337	HIST2H2AA3	0.0388	1.0934
51026	B07	53223	84129	ACAD11	0.0388	1.0935

11002	A01	542	6165	RPL35A	0.0388	1.0936
11018	G01	7276	5912	RAP2B	0.0389	1.0936
11066	D01	5028	55323	LARP6	0.0389	1.0937
11087	C05	6625	9825	SPATA2	0.0389	1.0937
11074	H11	1857	84100	ARL6	0.0389	1.0938
11061	G10	4634	617	BCS1L	0.0389	1.0938
51025	D08	56856	374868	ATP9B	0.0389	1.0938
11058	A04	3863	54930	HAUS4	0.0389	1.0938
51021	B10	56625	84342	COG8	0.0390	1.0939
11067	H10	7750	8685	MARCO	0.0390	1.0939
11005	E10	335	83638	C11orf68	0.0390	1.0939
51025	F10	56854	1806	DPYD	0.0390	1.0939
31001	F06	10663	25898	RCHY1	0.0390	1.0939
31044	G02	5168	92092	ZC3HAV1L	0.0390	1.0939
51022	F10	56190	3978	LIG1	0.0390	1.0940
51018	E11	56134	284451	ODF3L2	0.0391	1.0941
31030	E11	14429	780	DDR1	0.0391	1.0942
11052	F06	2428	3227	HOXC11	0.0391	1.0943
51034	B06	53457	284486	THEM5	0.0391	1.0943
11027	D08	5382	11237	RNF24	0.0391	1.0943
11039	D04	1455	6732	SRPK1	0.0392	1.0943
11050	A07	1017	26747	NUFIP1	0.0392	1.0943
11089	D02	1011	4899	NRF1	0.0392	1.0944
11050	C03	7501	10456	HAX1	0.0392	1.0944
11050	E09	1128	57471	ERMN	0.0392	1.0945
11048	E08	4429	79363	C1orf89	0.0392	1.0945
11056	F11	2741	301	ANXA1	0.0392	1.0945
11059	C02	9954	2813	GP2	0.0392	1.0945
51025	F11	53312	219736	STOX1	0.0392	1.0945
31042	C11	5299	9546	APBA3	0.0392	1.0945
51025	E06	56893	79158	GNPTAB	0.0392	1.0945
11002	E01	10147	1845	DUSP3	0.0392	1.0946
31022	F12	13456	92002	FAM58A	0.0393	1.0946
11081	B06	8005	1043	CD52	0.0393	1.0946
11010	F09	7457	26136	TES	0.0393	1.0947
51034	B10	53582	89765	RSPH1	0.0393	1.0947
51013	H01	54054	148266	ZNF569	0.0393	1.0948
11056	H05	7196	91603	ZNF830	0.0393	1.0948
31028	A08	14160	84163	GTF2IRD2	0.0393	1.0948
51025	G03	53302	394	ARHGAP5	0.0394	1.0949
31018	C02	13129	29802	VPREB3	0.0394	1.0949
11002	G10	8296	22977	AKR7A3	0.0394	1.0949
11052	H01	2246	23554	TSPAN12	0.0394	1.0950
31041	G02	6161	126433	FBXO27	0.0394	1.0950

51001	D12	54756	147920	IGFL2	0.0394	1.0951
51009	G07	53051	221061	FAM171A1	0.0395	1.0951
51015	H11	53089	23495	TNFRSF13B	0.0395	1.0952
51003	H03	53477	84931	LOC84931	0.0395	1.0952
51002	E01	54950	2647	BLOC1S1	0.0395	1.0952
51001	C05	52649	84651	SPINK7	0.0395	1.0953
51012	B02	52991	345895	RSPH4A	0.0395	1.0953
11039	F04	6638	64794	DDX31	0.0395	1.0953
11073	D03	4077	6635	SNRPE	0.0395	1.0953
51004	D04	54280	4803	NGF	0.0395	1.0953
11026	B07	9576	57573	ZNF471	0.0395	1.0953
11001	C04	8594	55585	UBE2Q1	0.0395	1.0953
51031	F06	55413	5064	PALM	0.0396	1.0953
11064	B10	4234	8882	ZNF259	0.0396	1.0954
31005	G11	10876	23126	POGZ	0.0396	1.0954
51034	H03	55040	154288	C6orf221	0.0396	1.0955
11019	D04	7055	55319	C4orf43	0.0396	1.0955
11035	B06	1326	4179	CD46	0.0396	1.0955
11054	C09	3879	308	ANXA5	0.0396	1.0955
51010	D04	54286	54431	DNAJC10	0.0396	1.0956
11025	B11	9830	84070	FAM186B	0.0397	1.0956
11089	G03	1037	65057	ACD	0.0397	1.0956
11085	D05	3573	55151	TMEM38B	0.0397	1.0956
11060	D08	970	64121	RRAGC	0.0397	1.0957
51027	E03	55401	81626	C1orf14	0.0397	1.0957
11053	E09	3567	10783	NEK6	0.0397	1.0957
11044	H04	4874	84310	C7orf50	0.0397	1.0957
51035	F07	54275	132724	TMPRSS11B	0.0397	1.0957
51008	C12	53077	6935	ZEB1	0.0397	1.0958
11007	H05	6174	29907	SNX15	0.0397	1.0958
11088	F03	5220	389	RHOC	0.0397	1.0958
51016	A03	53153	389860	PAGE2B	0.0397	1.0958
11075	E07	998	22800	RRAS2	0.0398	1.0959
11048	H03	1605	135295	SRSF12	0.0398	1.0959
11036	G10	3980	2896	GRN	0.0398	1.0959
31006	B12	11238	2590	GALNT2	0.0398	1.0961
51017	F12	55962	7696	ZNF137	0.0398	1.0961
11010	F05	5641	5557	PRIM1	0.0398	1.0961
51014	E05	52836	284110	GSDMA	0.0399	1.0961
11048	D04	2232	84232	MAF1	0.0399	1.0961
11044	C12	685	4601	MXI1	0.0399	1.0962
51027	G02	53320	6925	TCF4	0.0399	1.0962
11053	F02	940	4111	MAGEA12	0.0399	1.0962
11044	B02	4736	6142	RPL18A	0.0399	1.0963

11014	A04	787	55342	STRBP	0.0399	1.0963
51005	F05	53762	347853	TBX10	0.0400	1.0964
11050	E12	848	55745	MUDENG	0.0400	1.0964
31043	A10	7095	55661	DDX27	0.0400	1.0965
11001	C06	2824	55795	PCID2	0.0400	1.0965
51035	D09	54668	125115	KRT40	0.0400	1.0965
11072	B04	8179	57709	SLC7A14	0.0400	1.0965
11002	B06	9944	80864	EGFL8	0.0400	1.0966
31006	F03	10844	7421	VDR	0.0400	1.0966
11060	A06	7067	79175	ZNF343	0.0400	1.0966
11035	H07	6388	1974	EIF4A2	0.0401	1.0966
11061	A03	4880	56931	DUS3L	0.0401	1.0966
11004	D09	2418	51203	NUSAP1	0.0401	1.0966
11053	D01	2651	54982	CLN6	0.0401	1.0967
31009	F11	11723	705	BYSL	0.0401	1.0967
11044	H11	5173	65108	MARCKSL1	0.0401	1.0967
11073	A03	3790	9550	ATP6V1G1	0.0401	1.0967
51005	E05	54989	9840	KIAA0748	0.0401	1.0968
31040	B03	2042	7272	TTK	0.0401	1.0968
11077	A01	3777	7052	TGM2	0.0402	1.0969
11027	E12	3004	54539	NDUFB11	0.0402	1.0969
11063	F12	4835	84975	MFSD5	0.0402	1.0969
31012	A06	12100	57381	RHOJ	0.0402	1.0970
31032	F12	14811	352999	C6orf58	0.0402	1.0970
11074	H04	2124	1068	CETN1	0.0402	1.0970
51001	G02	52614	7940	LST1	0.0402	1.0970
31012	G01	12059	595101	LOC595101	0.0402	1.0970
11054	B01	2802	328	APEX1	0.0402	1.0971
11043	G07	2333	10627	MYL12A	0.0403	1.0971
11061	C06	4235	655	BMP7	0.0403	1.0971
11083	C12	4611	79415	C17orf62	0.0403	1.0972
51024	A01	53599	1950	EGF	0.0403	1.0972
31012	B03	12099	112812	FDX1L	0.0404	1.0974
11019	G11	7733	1443	CSH2	0.0404	1.0974
11062	F08	2197	221154	EFHA1	0.0404	1.0975
11068	B03	2867	6905	TBCE	0.0404	1.0976
51001	E03	52647	255061	TAC4	0.0404	1.0976
51030	F03	55514	2135	EXTL2	0.0404	1.0976
11006	H02	4805	56910	STARD7	0.0404	1.0976
11043	D02	757	8724	SNX3	0.0405	1.0976
11013	H08	484	27242	TNFRSF21	0.0405	1.0976
51012	C03	53099	60495	HPSE2	0.0405	1.0977
11014	G08	3005	4998	ORC1L	0.0405	1.0978
31018	F12	13012	30833	NT5C	0.0405	1.0978

31043	E06	7075	115825	WDFY2	0.0405	1.0978
11084	B04	9754	55088	C10orf118	0.0405	1.0979
11034	E08	1212	83942	TSSK1B	0.0406	1.0979
11064	B02	1270	118427	OLFM3	0.0406	1.0979
11012	E04	6183	1816	DRD5	0.0406	1.0980
11013	C01	4364	5709	PSMD3	0.0406	1.0980
11008	G10	8880	55698	RADIL	0.0406	1.0980
11057	H04	4050	10073	SNUPN	0.0406	1.0980
11084	H11	1921	284680	C1orf111	0.0406	1.0980
11072	D05	5353	10989	IMMT	0.0406	1.0980
11018	F07	3385	29074	MRPL18	0.0406	1.0980
31014	A01	12305	23210	JMJD6	0.0406	1.0981
11047	H04	5929	27315	PGAP2	0.0406	1.0981
11014	G09	883	10015	PDCD6IP	0.0407	1.0982
11057	C06	7915	64236	PDLIM2	0.0407	1.0982
11081	F06	8590	3845	KRAS	0.0407	1.0982
11064	E03	9270	8900	CCNA1	0.0407	1.0983
51011	G04	55014	240	ALOX5	0.0407	1.0983
31037	B02	11901	255104	TMCO4	0.0407	1.0984
11077	D09	918	28952	CCDC22	0.0408	1.0985
11050	H02	8679	220108	FAM124A	0.0408	1.0985
11059	A04	10149	10672	GNA13	0.0408	1.0986
11043	G05	6858	112483	SAT2	0.0408	1.0986
31014	A09	12121	200765	TIGD1	0.0408	1.0986
11045	D01	8425	147965	FAM98C	0.0409	1.0986
11062	B01	3045	64377	CHST8	0.0409	1.0987
11063	H08	4054	51309	ARMCX1	0.0409	1.0987
11078	A06	6217	51393	TRPV2	0.0409	1.0987
31015	C06	12676	1082	CGB	0.0409	1.0987
51015	G07	52790	399512	SLC25A35	0.0409	1.0987
11059	F10	1392	5071	PARK2	0.0409	1.0987
11048	H08	677	92399	MRRF	0.0409	1.0987
31041	A08	6177	10769	PLK2	0.0409	1.0987
11052	C06	4777	54470	ARMCX6	0.0409	1.0988
11088	G04	5100	79035	OBFC2B	0.0409	1.0988
11058	F06	5117	80196	RNF34	0.0409	1.0988
11062	G01	8943	10426	TUBGCP3	0.0410	1.0989
51001	C12	52629	283932	NCRNA00095	0.0410	1.0990
11058	H08	321	56894	AGPAT3	0.0410	1.0991
31016	A04	12552	9478	CABP1	0.0411	1.0992
31043	D09	6223	2309	FOXO3	0.0411	1.0992
11059	D08	447	NA	NA	0.0411	1.0993
11048	E05	1836	23176	SEPT8	0.0411	1.0993
51003	A03	52824	284415	VSTM1	0.0411	1.0993

11067	F08	2243	65975	STK33	0.0411	1.0993
11062	H02	5241	84961	FBXL20	0.0411	1.0993
51035	H05	53608	220988	HNRNPA3	0.0411	1.0994
11026	A07	2846	57523	NYNRIN	0.0412	1.0994
11046	A05	2419	25978	CHMP2B	0.0412	1.0994
11026	B10	3571	6166	RPL36AL	0.0412	1.0994
11005	E01	8715	54757	FAM20A	0.0412	1.0994
51014	H05	53035	5702	PSMC3	0.0412	1.0994
11050	G06	3942	79446	WDR25	0.0412	1.0995
11007	C01	370	79187	FSD1	0.0412	1.0995
11021	E08	5767	7416	VDAC1	0.0412	1.0995
11012	C06	6166	4312	MMP1	0.0412	1.0995
11060	F10	2306	254887	ZDHHC23	0.0412	1.0995
11001	G03	9297	8676	STX11	0.0412	1.0995
51025	D04	56222	9737	GPRASP1	0.0412	1.0995
51022	F07	56673	8438	RAD54L	0.0412	1.0995
31015	F10	12671	55647	RAB20	0.0412	1.0995
51023	E12	55904	9748	SLK	0.0413	1.0997
11055	H01	5670	10635	RAD51AP1	0.0413	1.0998
51001	F04	52619	729967	MORN2	0.0413	1.0998
51028	H02	55699	9584	RBM39	0.0413	1.0998
31010	E09	11764	64419	MTMR14	0.0413	1.0998
31039	A08	734	54849	DEF8	0.0413	1.0998
51030	D07	56529	386676	KRTAP10-9	0.0413	1.0998
11034	A03	7554	5771	PTPN2	0.0413	1.0999
11019	F10	6403	7763	ZFAND5	0.0413	1.0999
31028	A10	14112	222698	NKAPL	0.0413	1.0999
51030	G09	55619	199745	THAP8	0.0413	1.0999
31001	E12	10307	10766	TOB2	0.0413	1.0999
11060	F02	8443	6404	SELPLG	0.0414	1.0999
11018	G08	7933	402	ARL2	0.0414	1.0999
11013	C11	6940	10922	FASTK	0.0414	1.1000
11043	A09	8488	157927	C9orf62	0.0414	1.1000
11070	A12	9603	64410	KLHL25	0.0414	1.1001
11021	C03	4938	1134	CHRNA1	0.0414	1.1001
11017	E11	4055	51299	NRN1	0.0415	1.1002
11022	D05	7752	1974	EIF4A2	0.0415	1.1002
11085	B08	5286	84330	ZNF414	0.0415	1.1002
11040	F09	5065	84281	C2orf88	0.0415	1.1002
11016	G07	3128	6633	SNRPD2	0.0415	1.1002
11076	F01	5663	1069	CETN2	0.0415	1.1003
51001	A10	55077	84657	C3orf42	0.0415	1.1003
11046	D07	4377	9045	RPL14	0.0415	1.1004
11036	B04	4676	5176	SERPINF1	0.0416	1.1004

11077	F04	977	54986	ULK4	0.0416	1.1004
11088	H04	5775	84301	DDI2	0.0416	1.1005
31006	D05	10809	55065	GPR172B	0.0416	1.1005
31027	C06	14018	92	ACVR2A	0.0416	1.1005
51028	E04	56938	146439	CCDC64B	0.0416	1.1005
11010	A03	387	6948	TCN2	0.0416	1.1006
11068	C09	516	54575	UGT1A10	0.0416	1.1006
11015	G11	5772	8815	BANF1	0.0416	1.1006
11053	D11	2046	6511	SLC1A6	0.0417	1.1007
11048	F04	2630	80006	C5orf44	0.0417	1.1008
31001	B11	10301	10003	NAALAD2	0.0417	1.1008
11075	A09	4030	26151	NAT9	0.0417	1.1008
31040	B07	8484	6781	STC1	0.0417	1.1009
51001	G09	52651	285150	FLJ33534	0.0418	1.1010
11021	A08	5919	25805	BAMBI	0.0418	1.1010
11061	A09	5223	64429	ZDHC6	0.0418	1.1010
11051	D10	1982	55211	DPPA4	0.0418	1.1010
11019	E04	6756	51560	RAB6B	0.0418	1.1011
11003	H08	9419	283748	PLA2G4D	0.0418	1.1011
51018	F06	56130	139886	SPIN4	0.0418	1.1011
51008	D06	55903	3684	ITGAM	0.0418	1.1012
51024	G07	54107	55811	ADCY10	0.0418	1.1012
31040	G06	10195	144110	TMEM86A	0.0419	1.1012
51021	B03	55866	696	BTN1A1	0.0419	1.1012
11003	E02	5188	8562	DENR	0.0419	1.1012
31008	F01	11659	51537	MTP18	0.0419	1.1012
11001	F09	8619	11158	RABL2B	0.0419	1.1013
11080	F04	3798	87	ACTN1	0.0419	1.1013
11051	F11	810	54149	C21orf91	0.0420	1.1015
11015	E07	9100	64411	ARAP3	0.0420	1.1015
11004	A07	6009	1211	CLTA	0.0420	1.1015
51023	B07	55895	64135	IFIH1	0.0420	1.1015
11053	F01	5072	10670	RRAGA	0.0420	1.1015
11065	E09	1515	282809	POC1B	0.0420	1.1016
11042	A01	1304	8682	PEA15	0.0420	1.1016
11074	B08	3851	381	ARF5	0.0420	1.1016
11001	B12	676	64778	FNDC3B	0.0420	1.1016
51031	B06	53200	3139	HLA-L	0.0420	1.1016
11068	C10	6208	54084	C21orf29	0.0421	1.1017
11018	B07	6381	54987	C1orf123	0.0421	1.1017
31039	H08	8569	84342	COG8	0.0421	1.1017
11067	B07	9283	4653	MYOC	0.0421	1.1018
11044	C02	2131	754	PTTG1IP	0.0421	1.1018
11010	F12	658	5080	PAX6	0.0421	1.1018

11027	B04	8736	96764	TGS1	0.0421	1.1018
11079	F02	3372	5158	PDE6B	0.0421	1.1019
31025	A04	13605	81844	TRIM56	0.0421	1.1019
31023	G05	13430	90809	TMEM55B	0.0422	1.1019
11012	E06	6747	11269	DDX19B	0.0422	1.1020
11069	G06	6706	23302	WSCD1	0.0422	1.1020
51033	H01	55451	286527	TMSB15B	0.0422	1.1020
31008	D03	11669	51122	COMMD2	0.0422	1.1021
11030	A03	7421	3422	IDI1	0.0422	1.1021
11021	F02	3246	54952	TRNAU1AP	0.0422	1.1021
11077	F05	1155	2571	GAD1	0.0423	1.1022
11076	E06	4391	55234	SMU1	0.0423	1.1022
11052	A04	3938	64771	C6orf106	0.0423	1.1023
51006	A04	54731	1386	ATF2	0.0423	1.1023
11075	G04	5791	28970	C11orf54	0.0423	1.1023
31005	C11	10925	8110	DPF3	0.0423	1.1023
11016	B02	6444	55634	ZNF673	0.0423	1.1024
11021	F03	3646	9352	TXNL1	0.0423	1.1024
11046	D03	1104	11092	C9orf9	0.0423	1.1024
31034	A07	14928	116844	LRG1	0.0424	1.1024
31003	G06	10766	6340	SCNN1G	0.0424	1.1025
31007	C03	11146	375444	C5orf34	0.0424	1.1025
51012	B04	54536	8537	BCAS1	0.0424	1.1025
31003	A09	10747	10479	SLC9A6	0.0424	1.1025
11064	F01	7377	5406	PNLIP	0.0424	1.1025
51032	H08	53141	139793	PAGE3	0.0424	1.1027
11059	C08	81	56888	KCMF1	0.0425	1.1027
31044	E11	2341	4601	MXI1	0.0425	1.1027
11012	D10	130	6737	TRIM21	0.0425	1.1027
11081	E05	3285	78998	C8orf51	0.0425	1.1028
31023	C11	13625	26469	PTPN18	0.0425	1.1028
11062	F03	8817	7579	ZSCAN20	0.0425	1.1028
31025	F05	13707	6773	STAT2	0.0425	1.1029
31007	B11	11346	89932	PAPLN	0.0425	1.1029
11068	F09	4390	80778	ZNF34	0.0425	1.1029
31003	H07	10565	2673	GFPT1	0.0425	1.1029
11057	F02	9861	124404	SEPT12	0.0426	1.1030
51014	C02	52679	79783	C7orf10	0.0426	1.1030
11068	D12	7318	10039	PARP3	0.0426	1.1030
51035	D01	54778	3834	KIF25	0.0426	1.1030
31006	H03	11133	3768	KCNJ12	0.0426	1.1030
11032	H09	6327	10668	CGRRF1	0.0426	1.1030
11015	E05	5487	25847	ANAPC13	0.0426	1.1030
51018	F09	56773	1087	CEACAM7	0.0426	1.1030

11082	G08	140	5763	PTMS	0.0426	1.1030
11011	H09	500	56889	TM9SF3	0.0426	1.1030
31025	H10	14040	10281	DSCR4	0.0426	1.1030
51027	E10	56422	1375	CPT1B	0.0426	1.1030
11016	D03	8025	79016	DDA1	0.0426	1.1031
11063	D03	2548	80131	LRRC8E	0.0426	1.1032
11040	G02	8268	653687	NCRNA00246B	0.0427	1.1032
11076	A06	2660	1791	DNTT	0.0427	1.1034
51009	F01	52724	51311	TLR8	0.0427	1.1034
11015	H01	8980	23370	ARHGEF18	0.0427	1.1034
31019	E01	13260	115106	HAUS1	0.0427	1.1034
51032	F08	55593	201725	C4orf46	0.0427	1.1034
31042	A08	5965	2274	FHL2	0.0428	1.1036
11016	F03	7799	26017	FAM32A	0.0428	1.1036
11021	G11	7803	55702	CCDC94	0.0429	1.1037
51031	A03	55237	388677	NOTCH2NL	0.0429	1.1037
11006	D03	8033	55076	TMEM45A	0.0429	1.1038
11006	D01	5437	51010	EXOSC3	0.0429	1.1038
11054	C04	4272	80761	UPK3B	0.0429	1.1038
11084	E03	6537	140465	MYL6B	0.0429	1.1038
11061	G04	5332	55437	STRADB	0.0429	1.1038
31044	C03	4564	4692	NDN	0.0429	1.1039
51032	F06	56459	200197	C1orf126	0.0429	1.1039
11076	G09	4497	4128	MAOA	0.0430	1.1040
11013	G11	6708	3303	HSPA1A	0.0430	1.1040
11079	F12	1880	6764	ST5	0.0430	1.1040
31014	D02	12337	26985	AP3M1	0.0430	1.1041
11051	E01	9724	147798	TMC4	0.0430	1.1041
11008	A11	562	63943	FKBP1	0.0430	1.1041
11056	F07	4287	84263	HSDL2	0.0430	1.1041
31024	G03	13646	1487	CTBP1	0.0430	1.1042
11011	E03	8833	1488	CTBP2	0.0431	1.1042
11056	B08	6755	9391	CIAO1	0.0431	1.1043
31032	C08	14808	25938	HEATR5A	0.0431	1.1043
31024	B08	13494	92105	INTS4	0.0431	1.1044
11056	A04	4884	23493	HEY2	0.0431	1.1045
51004	E08	54615	79993	ELOVL7	0.0432	1.1045
11052	A07	3015	1406	CRX	0.0432	1.1046
11008	F04	770	23635	SSBP2	0.0432	1.1046
11030	H11	9132	79989	TTC26	0.0432	1.1046
31006	B05	11149	374403	TBC1D10C	0.0432	1.1047
11065	F03	5621	54929	TMEM161A	0.0432	1.1047
51022	D03	56226	10599	SLCO1B1	0.0432	1.1047
31009	F06	11502	953	ENTPD1	0.0432	1.1047

11047	H08	2368	9117	SEC22C	0.0432	1.1047
11088	G02	5624	4724	NDUFS4	0.0433	1.1047
51025	G07	56494	114815	SORCS1	0.0433	1.1048
31014	D06	12315	84656	GLYR1	0.0433	1.1048
11068	G02	9594	55454	CSGALNACT2	0.0433	1.1049
11058	B03	1309	166929	SGMS2	0.0434	1.1050
51003	C07	52607	342977	NANOS3	0.0434	1.1050
11089	B02	2974	79724	ZNF768	0.0434	1.1050
11003	D01	6130	6747	SSR3	0.0434	1.1051
11083	F01	9909	8650	NUMB	0.0434	1.1051
11049	G08	262	80176	SPSB1	0.0434	1.1051
11007	A08	8483	6834	SURF1	0.0434	1.1051
11011	A08	2714	6446	SGK1	0.0434	1.1051
11058	A06	2084	1902	LPAR1	0.0434	1.1052
11051	C04	6399	3290	HSD11B1	0.0434	1.1052
51016	E08	56724	116093	DIRC1	0.0434	1.1052
51009	G10	52727	84189	SLITRK6	0.0434	1.1052
11071	A03	10137	285195	SLC9A9	0.0435	1.1052
11037	B10	3705	653519	GPR89A	0.0435	1.1053
31013	H04	11897	9911	TMCC2	0.0435	1.1053
31040	H11	6135	54785	C17orf59	0.0435	1.1053
11035	B09	3691	25980	C20orf4	0.0435	1.1053
11019	D10	6037	64949	MRPS26	0.0435	1.1053
31002	E01	10320	9240	PNMA1	0.0435	1.1053
51024	F01	53974	10427	SEC24B	0.0435	1.1054
31011	H09	11845	128308	MRPL55	0.0435	1.1054
11022	F12	3339	9618	TRAF4	0.0435	1.1054
11059	B01	4562	60491	NIF3L1	0.0435	1.1054
11036	C04	2543	55750	AGK	0.0435	1.1055
11011	C04	519	9245	GCNT3	0.0436	1.1055
11079	F10	5900	6560	SLC12A4	0.0436	1.1055
11054	A02	6109	6175	RPLP0	0.0436	1.1056
11074	B05	5467	56925	LXN	0.0436	1.1056
11071	G07	9359	65979	PHACTR4	0.0436	1.1056
11044	E05	307	10741	RBBP9	0.0436	1.1056
11065	G05	8448	11221	DUSP10	0.0436	1.1057
11005	D04	8646	51313	FAM198B	0.0436	1.1057
11002	H02	9577	8034	SLC25A16	0.0436	1.1057
11074	A02	8875	23549	DNPEP	0.0437	1.1057
11017	F01	4032	3014	H2AFX	0.0437	1.1058
11057	F03	9559	4081	MAB21L1	0.0437	1.1058
31042	E01	4838	55471	C2orf56	0.0437	1.1059
11072	D02	2304	64770	CCDC14	0.0437	1.1059
11054	G02	2852	51101	FAM164A	0.0437	1.1059

11061	D04	644	3705	ITPK1	0.0437	1.1059
51014	F04	52996	7068	THRB	0.0438	1.1060
11076	D06	152	5987	TRIM27	0.0438	1.1060
11016	H10	7364	172	AFG3L1	0.0438	1.1060
51027	B04	55426	6545	SLC7A4	0.0438	1.1061
51032	G01	53243	345778	MTX3	0.0438	1.1061
31043	B08	7842	55254	TMEM39A	0.0438	1.1062
11087	B07	4546	7791	ZYX	0.0439	1.1063
31034	B10	14891	8726	EED	0.0439	1.1063
11048	F08	5961	23435	TARDBP	0.0439	1.1063
31010	D02	11509	57864	SLC46A2	0.0439	1.1064
11073	B02	4074	51499	TRIAP1	0.0439	1.1065
11076	G10	1228	55356	SLC22A15	0.0439	1.1065
11064	A11	814	132158	GLYCTK	0.0440	1.1065
11001	D01	8776	2045	EPHA7	0.0440	1.1065
11008	F01	52	5250	SLC25A3	0.0440	1.1067
11006	D02	9252	114960	TSGA13	0.0440	1.1068
11069	E04	4268	10489	LRRC41	0.0441	1.1068
11053	E01	3684	8774	NAPG	0.0441	1.1068
11036	F06	3480	5641	LGMN	0.0441	1.1068
11048	F11	614	760	CA2	0.0441	1.1068
11087	A02	5690	5408	PNLIPRP2	0.0441	1.1068
31024	F11	13552	80235	PIGZ	0.0441	1.1068
11043	F08	4748	4716	NDUFB10	0.0441	1.1069
11049	D02	8528	54860	MS4A12	0.0441	1.1069
11044	C01	8571	1974	EIF4A2	0.0441	1.1069
31008	C03	11664	7411	VBP1	0.0442	1.1071
11063	G02	2766	3475	IFRD1	0.0442	1.1071
31045	D07	9803	146556	C16orf89	0.0442	1.1072
31024	E08	13431	93100	NAPRT1	0.0442	1.1073
11030	D12	9379	132954	PDCL2	0.0443	1.1073
11014	D07	4457	327	APEH	0.0443	1.1073
51002	G08	55263	10518	CIB2	0.0443	1.1073
51027	F12	15001	200081	TXLNA	0.0443	1.1073
51024	F11	55205	120892	LRRK2	0.0443	1.1074
31008	H01	11390	124944	C17orf49	0.0443	1.1075
11053	B01	7929	5531	PPP4C	0.0444	1.1075
11065	A04	4551	11338	U2AF2	0.0444	1.1076
11049	A04	492	55707	NECAP2	0.0444	1.1076
31021	G07	13171	60412	EXOC4	0.0444	1.1076
11066	D06	2075	170384	FUT11	0.0444	1.1076
31014	G11	12263	54808	DYM	0.0444	1.1076
31028	F07	14105	6518	SLC2A5	0.0444	1.1076
11047	A06	1010	140545	RNF32	0.0444	1.1077

11075	E08	2555	4049	LTA	0.0444	1.1077
31030	D10	14265	163259	DENND2C	0.0445	1.1078
51025	F06	55361	3720	JARID2	0.0445	1.1078
31018	B09	13027	123811	C16orf63	0.0445	1.1079
11061	E11	8113	2222	FDFT1	0.0445	1.1079
11041	H10	8914	84553	C6orf168	0.0445	1.1079
11018	A11	3521	8409	UXT	0.0445	1.1080
11057	D11	5975	10807	SDCCAG3	0.0445	1.1080
51033	B09	54795	158381	ATP8B5P	0.0445	1.1080
51023	D11	56238	9889	ZBED4	0.0446	1.1081
11064	B06	1143	55079	FEZF2	0.0446	1.1082
11062	G05	10233	7597	ZBTB25	0.0447	1.1083
31015	B08	12481	79140	CCDC28B	0.0447	1.1084
11076	H05	4458	2193	FARSA	0.0447	1.1084
11069	D12	1420	150771	ITPRIPL1	0.0447	1.1085
31040	F08	10161	51513	ETV7	0.0447	1.1085
31017	C06	13273	1665	DHX15	0.0448	1.1085
31003	E03	10520	22836	RHOBTB3	0.0448	1.1086
11039	H03	1567	2733	GLE1	0.0448	1.1086
11066	G03	10062	331	XIAP	0.0448	1.1087
11068	F10	7121	51043	ZBTB7B	0.0448	1.1087
11051	A03	1819	56267	CCBL2	0.0448	1.1088
11004	F07	165	11158	RABL2B	0.0448	1.1088
31033	B04	14673	1738	DLD	0.0449	1.1089
11077	D12	1919	26060	APPL1	0.0449	1.1089
11061	B02	3743	3920	LAMP2	0.0449	1.1089
11079	G08	7704	8473	OGT	0.0449	1.1090
11002	H07	9995	51714	SELT	0.0449	1.1090
11086	G07	8016	26268	FBXO9	0.0449	1.1090
11035	D11	3386	8703	B4GALT3	0.0449	1.1090
11062	D10	9828	27285	TEKT2	0.0449	1.1090
11060	E12	5485	51000	SLC35B3	0.0449	1.1090
31038	E11	9715	8200	GDF5	0.0449	1.1090
11046	F02	4789	2947	GSTM3	0.0449	1.1090
11004	A04	2039	142679	DUSP19	0.0450	1.1090
31029	H06	14208	88455	ANKRD13A	0.0450	1.1091
31015	A04	12817	53354	PANK1	0.0450	1.1091
11068	F07	9620	7726	TRIM26	0.0450	1.1091
11036	A09	6458	5055	SERPINB2	0.0450	1.1092
11040	D02	4207	4900	NRGN	0.0450	1.1093
11056	A11	3511	51409	HEMK1	0.0450	1.1093
51016	E11	55979	219293	ATAD3C	0.0451	1.1093
31005	F04	10961	5693	PSMB5	0.0451	1.1094
51032	H03	56863	57624	KIAA1486	0.0451	1.1094

11054	H11	4240	55715	DOK4	0.0451	1.1095
51030	F06	55461	23366	KIAA0895	0.0451	1.1095
51012	D09	53030	84140	FAM161A	0.0451	1.1095
11055	F08	2666	5608	MAP2K6	0.0451	1.1095
11059	A03	9765	284273	ZADH2	0.0451	1.1095
31009	F09	11560	79692	ZNF322A	0.0451	1.1095
11073	C12	887	6003	RGS13	0.0452	1.1096
31029	B10	14377	112401	BIRC8	0.0452	1.1096
11050	H08	626	10007	GNPDA1	0.0452	1.1097
11061	E04	5858	11041	B3GNT1	0.0452	1.1098
11055	C08	2875	84457	PHYHIPL	0.0452	1.1098
51035	E09	53695	89792	GAL3ST3	0.0453	1.1099
11074	C08	5647	9166	EBAG9	0.0453	1.1099
11008	H03	5707	3107	HLA-C	0.0453	1.1100
11040	G04	9184	3112	HLA-DOB	0.0453	1.1100
11059	A06	4964	5195	PEX14	0.0454	1.1101
31015	D10	12516	63877	C10orf84	0.0454	1.1102
31028	E08	15055	152559	PAQR3	0.0454	1.1102
31004	E04	10737	1659	DHX8	0.0454	1.1103
51013	C03	54328	8875	VNN2	0.0455	1.1104
11068	B05	9567	10188	TNK2	0.0455	1.1104
11068	B11	2404	506	ATP5B	0.0455	1.1105
51025	A08	14804	57466	SFRS15	0.0455	1.1105
11048	D02	2897	30818	KCNIP3	0.0455	1.1105
51004	F05	54388	51050	PI15	0.0455	1.1105
51031	H03	56676	375612	LHFPL3	0.0455	1.1105
11044	F02	6958	28957	MRPS28	0.0455	1.1105
11074	C11	5591	51053	GMNN	0.0455	1.1105
31038	C06	14268	4855	NOTCH4	0.0456	1.1106
11022	H10	3727	4688	NCF2	0.0456	1.1106
51034	D03	53915	158055	C9orf163	0.0456	1.1106
51010	A04	52992	91807	MYLK3	0.0456	1.1107
11044	G02	4184	8834	TMEM11	0.0456	1.1107
51027	E05	11975	9572	NR1D1	0.0456	1.1107
11057	E05	5020	26505	CNNM3	0.0456	1.1107
51001	C01	53399	10896	OCLM	0.0456	1.1108
51030	H01	55608	50809	HP1BP3	0.0456	1.1108
51012	G01	54719	255928	SYT14	0.0457	1.1109
11070	B05	7607	51497	TH1L	0.0457	1.1110
11005	F08	47	25912	C1orf43	0.0457	1.1110
11002	E08	5808	3043	HBB	0.0457	1.1110
11016	H02	3201	118433	RPL23AP7	0.0457	1.1111
11040	C09	6837	113386	LOC113386	0.0458	1.1112
31018	B06	12976	54959	ODAM	0.0458	1.1113

31016	E05	12504	2355	FOSL2	0.0459	1.1115
11035	F09	3438	79188	TMEM43	0.0459	1.1116
11071	F10	45	54496	PRMT7	0.0459	1.1116
31045	C03	4915	84811	BUD13	0.0460	1.1117
11047	B11	9422	541468	C1orf190	0.0460	1.1117
11063	C12	769	133619	PRRC1	0.0460	1.1118
11051	G09	23	51035	UBXN1	0.0461	1.1119
31036	G09	12339	1656	DDX6	0.0461	1.1120
31018	G10	13087	55937	APOM	0.0461	1.1120
11026	E02	9785	80205	CHD9	0.0461	1.1121
51020	F04	56633	163071	ZNF114	0.0461	1.1121
51011	A02	55028	60625	DHX35	0.0461	1.1121
11027	D03	915	7323	UBE2D3	0.0462	1.1121
11038	H01	2434	8031	NCOA4	0.0462	1.1122
11032	E01	9243	121793	C13orf16	0.0462	1.1123
51002	A05	52745	128872	HMGB3L1	0.0462	1.1123
31007	E10	11627	NA	NA	0.0462	1.1123
51008	A04	54422	9990	SLC12A6	0.0463	1.1124
11059	C03	9972	187	APLNR	0.0463	1.1125
11054	G07	2888	3155	HMGCL	0.0463	1.1125
11060	D12	2258	257062	TMEM146	0.0463	1.1126
31009	C05	11329	3737	KCNA2	0.0463	1.1126
51026	E02	56845	57535	KIAA1324	0.0463	1.1126
51013	F10	54095	10587	TXNRD2	0.0464	1.1126
51011	G08	54833	84939	MUM1	0.0464	1.1127
11022	H02	5384	11137	PWP1	0.0464	1.1127
11008	G06	6028	10474	TADA3	0.0464	1.1128
11069	D07	7745	7587	ZNF37A	0.0464	1.1128
11086	B06	190	5977	DPF2	0.0464	1.1128
11015	E06	6332	9140	ATG12	0.0464	1.1129
11074	E02	2034	389874	ZCCHC13	0.0464	1.1129
51012	H01	52830	125919	ZNF543	0.0464	1.1129
11074	F01	1648	80759	KHDC1	0.0465	1.1129
11066	E11	7713	8973	CHRNA6	0.0465	1.1130
31030	H04	14402	3838	KPNA2	0.0465	1.1130
11044	D04	6596	79685	SAP30L	0.0465	1.1130
11056	F02	5648	55577	NAGK	0.0465	1.1130
11034	H04	1649	23209	MLC1	0.0465	1.1130
51023	B11	56259	23095	KIF1B	0.0465	1.1131
11071	B09	9337	25921	ZDHHC5	0.0465	1.1131
11084	D03	4004	8772	FADD	0.0466	1.1132
31005	C04	11006	83871	RAB34	0.0466	1.1132
31007	F09	11478	6358	CCL14	0.0466	1.1133
11014	F01	4505	60493	FASTKD5	0.0466	1.1134

11052	D11	1176	121274	ZNF641	0.0466	1.1134
51014	A03	55009	3570	IL6R	0.0466	1.1134
31003	A11	10780	8065	CUL5	0.0467	1.1134
51021	G08	55733	50717	DCAF8	0.0467	1.1134
31003	F05	10508	57689	LRRC4C	0.0467	1.1134
11059	C05	6996	54516	MTRF1L	0.0467	1.1136
31009	G10	11805	4088	SMAD3	0.0467	1.1136
11004	G09	2791	90523	C6orf142	0.0467	1.1136
11082	C10	9045	84335	AKT1S1	0.0467	1.1136
11078	D02	5852	90678	LRSAM1	0.0468	1.1137
51014	E09	52905	7818	DAP3	0.0468	1.1138
51022	C11	56183	81793	TLR10	0.0468	1.1139
51010	E04	53979	54431	DNAJC10	0.0468	1.1139
11032	E09	1869	117584	RFFL	0.0469	1.1139
11068	A11	8514	66002	CYP4F12	0.0469	1.1139
31015	C11	12625	28786	IGLV4-3	0.0469	1.1141
11002	H11	9010	2966	GTF2H2	0.0469	1.1142
11009	F02	3230	23061	TBC1D9B	0.0469	1.1142
11006	B02	8444	10179	RBM7	0.0470	1.1142
51020	H07	56787	10000	AKT3	0.0470	1.1143
31001	F07	10258	54664	TMEM106B	0.0470	1.1143
31039	D06	909	51371	POMP	0.0470	1.1143
11015	C10	9057	55750	AGK	0.0470	1.1144
11048	A03	6598	113130	CDCA5	0.0470	1.1144
51005	E12	53543	9123	SLC16A3	0.0471	1.1144
11058	E02	4181	55968	NSFL1C	0.0471	1.1145
11011	G03	7843	92715	WDR85	0.0471	1.1146
11011	D05	3025	9807	IP6K1	0.0471	1.1146
11053	F04	1258	1428	CRYM	0.0471	1.1146
11014	F05	7727	6774	STAT3	0.0471	1.1146
11048	D01	6320	51297	PLUNC	0.0471	1.1146
11046	B02	2433	2810	SFN	0.0472	1.1147
31005	E10	10956	55314	TMEM144	0.0472	1.1147
31022	E01	13350	6699	SPRR1B	0.0472	1.1147
51004	F08	55713	221120	ALKBH3	0.0472	1.1148
51015	D03	52821	126520	PLK5P	0.0472	1.1149
11012	D03	5963	92745	SLC38A5	0.0472	1.1149
11085	D03	7601	1716	DGUOK	0.0472	1.1149
51014	B04	54240	93233	CCDC114	0.0472	1.1149
31042	G10	5920	2091	FBL	0.0473	1.1150
11005	C04	3064	25949	SYF2	0.0473	1.1151
11004	F03	8072	127703	C1orf216	0.0474	1.1152
11014	F08	6238	5213	PFKM	0.0474	1.1152
31001	G10	10530	124626	ZBP2	0.0474	1.1153

51014	E10	52726	89780	WNT3A	0.0474	1.1154
11086	E05	3522	8440	NCK2	0.0474	1.1154
11048	C02	4061	10197	PSME3	0.0475	1.1155
11064	B01	139	64788	LMF1	0.0475	1.1155
11059	G05	4538	60672	MIIIP	0.0475	1.1155
51026	F02	56697	201134	CCDC46	0.0475	1.1155
11054	G09	3251	10327	AKR1A1	0.0475	1.1156
31007	D02	10812	9852	EPM2AIP1	0.0475	1.1156
11032	C09	10089	23332	CLASP1	0.0475	1.1156
11077	B10	8485	84708	LNX1	0.0475	1.1157
11084	H02	5897	55257	C20orf20	0.0475	1.1157
11013	G08	6887	10994	ILVBL	0.0476	1.1158
11077	E10	1122	5137	PDE1C	0.0476	1.1158
11047	C12	9290	146849	CCDC42	0.0476	1.1158
11030	D01	5998	3692	EIF6	0.0476	1.1158
31040	D09	9433	64518	TEKT3	0.0476	1.1158
51031	B12	53233	129852	C2orf73	0.0476	1.1158
11039	G01	8068	7216	TRO	0.0476	1.1158
31019	C04	12909	10993	SDS	0.0476	1.1159
51035	G04	54534	92305	TMEM129	0.0476	1.1159
51032	G07	55358	125704	FAM69C	0.0477	1.1160
31044	H07	5087	23136	EPB41L3	0.0477	1.1161
31034	H03	14825	127255	LRRIQ3	0.0477	1.1161
11026	A02	2326	414926	C15orf50	0.0477	1.1161
11011	E12	3222	83743	GRWD1	0.0477	1.1162
11061	C07	4830	6839	SUV39H1	0.0478	1.1162
31001	E08	10653	90806	ANGEL2	0.0478	1.1163
11015	E08	9146	100188893	TOMM6	0.0478	1.1163
51022	C08	55878	57124	CD248	0.0478	1.1163
51030	D01	53311	338645	LUZP2	0.0478	1.1164
31004	G01	10438	1000	CDH2	0.0478	1.1164
51013	A09	52766	285343	C3orf23	0.0478	1.1164
31012	C05	12364	80145	THOC7	0.0478	1.1164
11060	C08	7388	64431	ACTR6	0.0478	1.1164
11048	C03	230	220134	SKA1	0.0478	1.1165
11003	H06	2005	92597	MOBKL1A	0.0478	1.1165
11006	F08	9479	122046	C13orf26	0.0478	1.1165
51024	D03	55201	56992	KIF15	0.0479	1.1165
51027	D12	53178	55015	PRPF39	0.0479	1.1166
51021	G11	55854	1137	CHRNA4	0.0479	1.1166
11043	E04	4580	29098	RANGRF	0.0479	1.1166
51027	H03	55524	119	ADD2	0.0479	1.1167
11011	B01	5246	79102	RNF26	0.0480	1.1168
31007	C04	10831	22878	KIAA1012	0.0480	1.1169

11026	B11	6088	51241	COX16	0.0480	1.1169
31039	C05	8647	29985	SLC39A3	0.0481	1.1170
11021	E07	4003	10554	AGPAT1	0.0481	1.1170
51032	F07	55434	124912	SPACA3	0.0481	1.1172
11021	B09	8022	4722	NDUFS3	0.0482	1.1173
11003	E10	2235	200931	OSTalpha	0.0482	1.1173
11002	F03	9950	58490	RPRD1B	0.0482	1.1173
11065	E05	4916	29997	GLTSCR2	0.0482	1.1174
11061	D08	10167	55351	STK32B	0.0482	1.1174
11074	D03	2134	125875	CLDND2	0.0482	1.1175
51004	B04	52851	8403	SOX14	0.0482	1.1175
11005	D12	9852	286053	NSMCE2	0.0483	1.1176
11077	B04	1227	373	TRIM23	0.0483	1.1177
51001	F06	14014	81698	C15orf5	0.0484	1.1178
51014	F11	52890	8838	WISP3	0.0484	1.1178
11071	D05	9947	55212	BBS7	0.0484	1.1179
31011	A08	12122	400590	LOC400590	0.0484	1.1179
51032	H06	56552	284618	C1orf104	0.0484	1.1179
11025	F11	1603	3631	INPP4A	0.0484	1.1179
11022	D11	7598	23464	GCAT	0.0484	1.1179
51008	B10	56337	54856	GON4L	0.0484	1.1180
11076	D03	4881	57050	UTP3	0.0484	1.1180
11032	D04	9350	1912	PHC2	0.0485	1.1181
51027	H09	56913	340075	ARSI	0.0485	1.1181
31004	D07	11065	130576	LYPD6B	0.0485	1.1181
11068	A06	7088	10458	BAIAP2	0.0485	1.1182
11079	C09	7871	701	BUB1B	0.0485	1.1182
51033	F05	54072	54067	C21orf49	0.0485	1.1183
11008	G02	5868	79991	OBFC1	0.0486	1.1183
51030	A08	53295	6547	SLC8A3	0.0486	1.1183
11015	C06	6256	284942	RPL23AP82	0.0486	1.1183
51008	D12	53080	23196	FAM120A	0.0486	1.1183
11054	B05	3731	5631	PRPS1	0.0486	1.1183
11025	H03	4969	7318	UBA7	0.0486	1.1183
11065	A05	6527	7453	WARS	0.0486	1.1184
11075	C12	4958	467	ATF3	0.0486	1.1184
51027	D08	53363	317761	C14orf39	0.0486	1.1185
11039	A07	1724	164127	C1orf65	0.0486	1.1185
11010	H01	652	55032	SLC35A5	0.0486	1.1185
11047	A04	6818	9235	IL32	0.0486	1.1185
11012	B09	69	7431	VIM	0.0487	1.1186
31008	E12	11616	9	NAT1	0.0487	1.1186
11036	H05	6323	9318	COPS2	0.0487	1.1186
11071	H09	1665	1012	CDH13	0.0487	1.1186

11067	G05	613	22827	PUF60	0.0487	1.1187
11079	E03	7836	10025	MED16	0.0487	1.1188
11027	F10	8151	26525	IL1F5	0.0488	1.1188
11014	C05	2436	6897	TARS	0.0488	1.1190
11048	D08	265	5567	PRKACB	0.0488	1.1190
11064	G02	560	8797	TNFRSF10A	0.0489	1.1191
51010	E03	52705	56127	PCDHB9	0.0489	1.1191
11026	A11	8756	54431	DNAJC10	0.0489	1.1191
31043	C01	5304	84968	PNMA6A	0.0489	1.1192
11042	E09	4983	1175	AP2S1	0.0489	1.1192
51010	G11	53837	91828	C14orf73	0.0490	1.1194
51009	C11	54556	10509	SEMA4B	0.0490	1.1194
31006	E02	11211	55680	RUFY2	0.0490	1.1194
11035	H11	6957	51177	PLEKHO1	0.0490	1.1195
11051	F12	3263	51075	TMX2	0.0490	1.1195
51033	B04	53376	84099	ID2B	0.0490	1.1196
11008	E06	3174	5162	PDHB	0.0491	1.1196
11005	F11	9848	2214	FCGR3A	0.0491	1.1196
11084	B09	4062	5354	PLP1	0.0491	1.1197
31004	H06	10995	440093	H3F3C	0.0491	1.1197
11049	D11	5130	9019	MPZL1	0.0491	1.1198
51013	F05	53792	140807	KRT72	0.0491	1.1198
51033	C10	54863	6370	CCL25	0.0491	1.1198
11063	G01	9833	81027	TUBB1	0.0492	1.1199
11055	C10	7528	8572	PDLIM4	0.0492	1.1199
11008	A09	2827	27156	RTDR1	0.0492	1.1199
31023	D09	13648	3581	IL9R	0.0492	1.1200
11022	A10	7631	128	ADH5	0.0493	1.1201
31031	F04	14587	55801	IL26	0.0493	1.1202
51030	A09	55563	81542	TMX1	0.0493	1.1203
11069	B06	2363	2557	GABRA4	0.0494	1.1204
11011	B10	333	55791	C1orf103	0.0494	1.1205
11074	H09	1868	89885	FATE1	0.0494	1.1205
31023	F09	13402	55255	WDR41	0.0494	1.1205
11039	H07	5289	10780	ZNF234	0.0494	1.1206
31032	E09	14777	27283	TINAG	0.0495	1.1206
11066	D09	639	23452	ANGPTL2	0.0495	1.1206
11006	G03	7340	115024	NT5C3L	0.0495	1.1207
11067	D09	9549	260293	CYP4X1	0.0495	1.1207
51034	D12	54038	142683	ITLN2	0.0495	1.1207
11012	C09	533	2114	ETS2	0.0495	1.1208
51015	E08	52923	951	CD37	0.0495	1.1208
51014	D01	53361	9604	RNF14	0.0496	1.1209
31012	D03	12084	56287	GKN1	0.0496	1.1209

51024	D07	56343	22844	FRMPD1	0.0496	1.1210
11029	G06	8211	152815	THAP6	0.0496	1.1210
51035	D03	54416	23566	LPAR3	0.0496	1.1210
11053	A05	2729	8942	KYNU	0.0496	1.1210
11009	F11	6008	113802	C1orf59	0.0496	1.1211
51027	F02	55625	10174	SORBS3	0.0496	1.1211
11043	C12	5650	7125	TNNC2	0.0497	1.1213
11071	D08	766	309	ANXA6	0.0497	1.1214
11047	B12	9536	5645	PRSS2	0.0497	1.1214
11035	E03	6372	7746	ZNF193	0.0497	1.1214
11045	B12	9396	26074	C20orf26	0.0498	1.1214
11059	E10	5423	8877	SPHK1	0.0498	1.1214
11076	H01	5770	10214	SSX3	0.0498	1.1216
11076	D05	4444	27339	PRPF19	0.0498	1.1216
11043	H01	4662	1153	CIRBP	0.0499	1.1218
31001	C09	10414	54585	LZTFL1	0.0499	1.1218
11071	E11	1547	85415	RHPN2	0.0499	1.1219
11073	E01	4227	NA	NA	0.0500	1.1219
11014	A09	6828	22980	TCF25	0.0500	1.1219
11049	H11	794	132789	GNPDA2	0.0500	1.1220
11054	F04	5821	113829	SLC35A4	0.0500	1.1220
51012	F03	53942	5966	REL	0.0500	1.1220
51011	G11	53766	55958	KLHL9	0.0500	1.1221
11032	B04	8348	27295	PDLIM3	0.0501	1.1222
51034	H01	55080	440200	FLJ41170	0.0501	1.1223
51029	C07	56241	129804	FBLN7	0.0501	1.1223
11059	G09	5629	93474	ZNF670	0.0501	1.1224
11022	H03	8000	1615	DARS	0.0502	1.1225
51025	G08	56931	23272	C3orf63	0.0502	1.1225
51001	E01	52615	222659	PXT1	0.0502	1.1225
51025	E09	55681	23041	MON2	0.0502	1.1225
11011	F09	5766	84790	TUBA1C	0.0502	1.1226
11069	C02	2239	7188	TRAF5	0.0502	1.1226
11034	D08	1400	80310	PDGFD	0.0502	1.1226
11012	G10	5749	3493	IGHA1	0.0502	1.1226
51005	G09	54446	3394	IRF8	0.0502	1.1227
11065	B06	7508	814	CAMK4	0.0503	1.1227
11047	F02	4263	84759	PCGF1	0.0503	1.1227
31043	F08	7805	23457	ABCB9	0.0503	1.1227
31009	D01	11348	253143	C22orf30	0.0503	1.1228
51023	F03	56083	80201	HKDC1	0.0503	1.1228
51027	G11	55271	93643	TJAP1	0.0503	1.1229
11034	F04	1595	219333	USP12	0.0504	1.1230
11069	D09	8213	5236	PGM1	0.0504	1.1231

31008	H02	11642	202051	SPATA24	0.0504	1.1231
11013	F04	7430	9948	WDR1	0.0504	1.1231
11013	H06	5069	56848	SPHK2	0.0504	1.1232
31016	A09	12524	11019	LIAS	0.0505	1.1232
11011	A09	2702	3872	KRT17	0.0505	1.1233
11067	D05	4363	84749	USP30	0.0505	1.1233
11017	A06	6519	5438	POLR2I	0.0505	1.1234
31044	A11	675	26575	RGS17	0.0506	1.1234
31019	C06	12981	119392	C10orf78	0.0506	1.1234
51004	A01	53996	55800	SCN3B	0.0506	1.1235
51030	E12	55482	8418	CMAH	0.0506	1.1235
51001	H02	53090	27230	SERP1	0.0506	1.1235
51002	A04	52606	340811	AKR1CL1	0.0506	1.1235
31009	F07	11790	7936	RDBP	0.0506	1.1235
11073	D04	4233	5757	PTMA	0.0506	1.1235
51014	D12	53103	168002	DACT2	0.0506	1.1236
11010	C05	150	5887	RAD23B	0.0506	1.1236
11011	A03	65	3875	KRT18	0.0507	1.1237
51023	G11	53638	3682	ITGAE	0.0507	1.1238
11055	B07	5019	26508	HEYL	0.0507	1.1239
51011	D12	52807	348807	CCDC37	0.0507	1.1239
51013	G09	53952	1549	CYP2A7	0.0507	1.1239
11051	F05	569	10950	BTG3	0.0508	1.1241
51035	H03	54040	23439	ATP1B4	0.0508	1.1241
11068	G06	960	5238	PGM3	0.0508	1.1241
11058	B05	4480	51100	SH3GLB1	0.0508	1.1241
31006	B07	11110	55138	FAM90A1	0.0508	1.1242
51021	G06	56801	116285	ACSM1	0.0509	1.1242
51011	G10	54262	93986	FOXP2	0.0509	1.1243
11013	A04	2529	140885	SIRPA	0.0509	1.1243
31024	B03	13412	89891	WDR34	0.0509	1.1243
11034	E03	3147	5603	MAPK13	0.0509	1.1244
51028	E03	56925	80727	TTYH3	0.0510	1.1245
51010	D10	52951	2051	EPHB6	0.0510	1.1245
51027	E09	53287	6506	SLC1A2	0.0510	1.1245
31001	H02	10552	91942	NDUFAF2	0.0510	1.1247
11021	F08	7944	8576	STK16	0.0510	1.1247
11056	D09	278	130589	GALM	0.0510	1.1247
51025	D02	56347	128239	IQGAP3	0.0511	1.1248
31044	A12	2465	30819	KCNIP2	0.0511	1.1248
31005	F02	11120	9274	BCL7C	0.0511	1.1249
11073	B06	4280	84262	PSMG3	0.0511	1.1249
11010	C03	401	26502	NARF	0.0512	1.1250
11049	C08	256	9445	ITM2B	0.0512	1.1251

11003	B09	9005	1806	DPYD	0.0512	1.1251
11085	H03	4110	8764	TNFRSF14	0.0512	1.1251
11079	D04	2300	11069	RAPGEF4	0.0512	1.1251
11043	H02	5417	51060	TXNDC12	0.0512	1.1252
31039	E08	2721	29984	RHOD	0.0512	1.1252
11081	C10	9050	3840	KPNA4	0.0512	1.1252
11047	D04	3756	9217	VAPB	0.0512	1.1252
11076	G05	4376	80210	ARMC9	0.0513	1.1253
11012	A11	725	26065	LSM14A	0.0513	1.1253
31001	H10	10743	26716	OR2H1	0.0513	1.1253
31021	A07	12953	1188	CLCNKB	0.0513	1.1255
51004	D11	53909	27023	FOXB1	0.0513	1.1255
51027	H07	55691	115948	CCDC151	0.0513	1.1255
51012	F05	54471	55810	FOXJ2	0.0513	1.1255
11067	A10	7227	23657	SLC7A11	0.0514	1.1256
11050	B12	7083	115106	HAUS1	0.0514	1.1256
11081	F08	389	4504	MT3	0.0514	1.1256
31014	D01	11848	84458	LCOR	0.0514	1.1256
31001	D11	10452	254251	LCORL	0.0514	1.1257
51011	E09	53655	6534	SLC6A7	0.0514	1.1258
11020	A01	6729	27338	UBE2S	0.0515	1.1258
11079	F06	2513	5098	PCDHGC3	0.0515	1.1258
51008	H05	56891	199223	TTC21A	0.0515	1.1259
11026	B12	9250	NA	NA	0.0515	1.1259
51032	F09	53385	542767	PCOTH	0.0515	1.1259
11087	E03	10159	79027	ZNF655	0.0516	1.1260
11082	B06	4087	28958	CCDC56	0.0516	1.1260
51005	F04	54219	23306	TMEM194A	0.0516	1.1261
11067	D04	10069	23190	UBXN4	0.0516	1.1261
51023	D09	53571	3918	LAMC2	0.0516	1.1261
11028	C06	3972	11258	DCTN3	0.0516	1.1261
11048	G07	6555	58190	CTDSP1	0.0516	1.1262
11063	C05	7885	83637	ZMIZ2	0.0516	1.1262
11016	F08	7908	84247	LDOC1L	0.0516	1.1262
31007	G02	11222	406	ARNTL	0.0517	1.1263
11053	F08	6800	51011	FAHD2A	0.0517	1.1264
51033	D06	54140	84677	DSCR8	0.0517	1.1264
11027	E06	8371	4149	MAX	0.0517	1.1265
11014	C06	6129	823	CAPN1	0.0517	1.1265
31031	E11	14669	9913	SUPT7L	0.0517	1.1265
11073	C04	4418	56475	RPRM	0.0518	1.1266
11069	F07	9470	5187	PER1	0.0518	1.1266
11082	C03	4183	79160	MGC4294	0.0518	1.1267
11064	D06	2342	8454	CUL1	0.0519	1.1268

51021	B04	56208	10500	SEMA6C	0.0519	1.1268
31036	F05	11619	6720	SREBF1	0.0519	1.1269
51027	E06	56232	57558	USP35	0.0519	1.1269
11055	C02	8327	9402	GRAP2	0.0519	1.1269
31025	C09	14057	85293	KRTAP3-3	0.0519	1.1269
51028	D02	56607	54657	UGT1A4	0.0519	1.1269
11010	F01	5711	28969	BZW2	0.0519	1.1269
11018	H10	6950	27350	APOBEC3C	0.0519	1.1270
11063	H03	2389	55012	PPP2R3C	0.0519	1.1270
11054	E02	5097	55344	PLCXD1	0.0519	1.1270
31003	F12	10637	55553	SOX6	0.0519	1.1270
11068	D02	4112	26093	CCDC9	0.0519	1.1270
11077	A04	3833	3329	HSPD1	0.0520	1.1271
51021	A11	55863	133396	IL31RA	0.0520	1.1272
51015	H09	52977	150368	FAM109B	0.0520	1.1272
11010	F07	3811	10965	ACOT2	0.0521	1.1274
11061	E05	9989	28999	KLF15	0.0521	1.1274
51025	D03	56880	81792	ADAMTS12	0.0521	1.1274
11058	B04	2613	6820	SULT2B1	0.0521	1.1274
11010	B09	3549	23588	KLHDC2	0.0521	1.1275
31035	D01	14863	267	AMFR	0.0521	1.1275
11002	A03	390	84331	FAM195A	0.0522	1.1276
11053	D12	3305	8566	PDXK	0.0522	1.1277
51021	B09	55841	173	AFM	0.0522	1.1277
51008	A10	56346	9816	URB2	0.0522	1.1278
11013	B12	7936	10623	POLR3C	0.0522	1.1278
11048	G02	4274	1316	KLF6	0.0523	1.1279
11063	C04	7741	51185	CRBN	0.0523	1.1280
11037	F04	5348	207	AKT1	0.0523	1.1281
11071	A07	732	5894	RAF1	0.0523	1.1281
31006	D08	11115	10991	SLC38A3	0.0524	1.1281
31018	C06	13300	10092	ARPC5	0.0524	1.1282
51016	G07	56005	NA	NA	0.0524	1.1282
11068	H04	7855	3431	SP110	0.0524	1.1282
11039	C01	7688	3707	ITPKB	0.0524	1.1282
11057	E08	9949	56265	CPXM1	0.0524	1.1283
11020	C06	5264	79640	C22orf46	0.0525	1.1284
51028	F08	55382	582	BBS1	0.0525	1.1284
11059	H05	4166	653361	NCF1	0.0525	1.1285
11081	B01	5054	54520	CCDC93	0.0525	1.1285
51003	F08	52929	149345	SHISA4	0.0525	1.1285
11015	F12	6383	10282	BET1	0.0525	1.1286
11067	C02	2631	10840	ALDH1L1	0.0525	1.1286
11065	B10	1133	2560	GABRB1	0.0526	1.1286

31039	G10	489	9014	TAF1B	0.0526	1.1287
31009	E08	11366	375307	C2orf62	0.0526	1.1287
11045	A10	1532	143471	PSMA8	0.0526	1.1287
11018	B11	8859	7070	THY1	0.0526	1.1287
11070	B08	2448	2896	GRN	0.0526	1.1287
31006	G10	11186	84186	ZCCHC7	0.0526	1.1289
11078	G06	2496	7592	ZNF41	0.0527	1.1289
31020	D12	12910	91543	RSAD2	0.0527	1.1290
11008	B06	2793	728	C5AR1	0.0527	1.1291
11070	A10	7792	23650	TRIM29	0.0528	1.1292
51034	C03	53849	733	C8G	0.0528	1.1293
11005	H09	9332	143162	FRMPD2	0.0528	1.1293
31021	E09	12962	280	AMY2B	0.0528	1.1293
11039	G10	1508	64786	TBC1D15	0.0528	1.1293
51015	D01	52763	266747	RGL4	0.0528	1.1293
31006	D01	11207	55008	HERC6	0.0529	1.1294
11064	B08	3020	1123	CHN1	0.0529	1.1294
11073	G03	3922	6988	TCTA	0.0529	1.1295
11079	H11	1382	9728	SECISBP2L	0.0529	1.1295
11015	B12	5724	84833	USMG5	0.0529	1.1296
51032	C04	56749	1589	CYP21A2	0.0529	1.1296
11001	A03	2850	619434	NCRNA00051	0.0529	1.1296
11043	G01	157	7555	CNBP	0.0529	1.1296
11009	D11	434	84324	SARNP	0.0530	1.1297
11013	F01	1472	153745	FAM71B	0.0530	1.1297
31018	A07	12964	134492	NUDCD2	0.0530	1.1297
11008	C08	742	9456	HOMER1	0.0530	1.1297
51025	D05	55703	672	BRCA1	0.0530	1.1298
51006	F06	53181	84227	RGSL2	0.0530	1.1298
11047	A07	2288	1745	DLX1	0.0530	1.1298
31001	E07	10343	58191	CXCL16	0.0530	1.1298
11053	H09	5956	10495	ENOX2	0.0530	1.1299
11026	F07	2617	11102	RPP14	0.0530	1.1299
31036	C04	10832	222194	RSBN1L	0.0530	1.1299
11048	C12	8929	93107	KCNG4	0.0530	1.1299
11056	H03	10117	283933	ZNF843	0.0531	1.1301
11006	D09	1373	6456	SH3GL2	0.0531	1.1301
51012	G07	52801	153129	SLC38A9	0.0531	1.1301
51010	G02	53646	1006	CDH8	0.0532	1.1302
11045	H09	406	112950	MED8	0.0532	1.1302
31042	G05	6989	220002	CYBASC3	0.0532	1.1303
11074	A04	8928	51078	THAP4	0.0532	1.1303
51014	F06	52927	2845	GPR22	0.0532	1.1303
11075	E04	1125	51501	C11orf73	0.0532	1.1303

51015	C02	52839	29942	PURG	0.0532	1.1304
51030	C02	56911	144404	TMEM120B	0.0533	1.1305
51031	E04	55584	79853	TM4SF20	0.0533	1.1305
11045	D08	368	55069	C7orf42	0.0533	1.1306
31036	F01	11188	55000	TUG1	0.0533	1.1306
31044	D10	1793	9338	TCEAL1	0.0534	1.1308
11073	F04	3768	8115	TCL1A	0.0534	1.1309
11043	C10	7323	5376	PMP22	0.0534	1.1309
51009	A03	54593	51291	GMP	0.0534	1.1309
31009	D06	11470	123355	LRRC28	0.0534	1.1309
51012	A09	52882	11181	TREH	0.0535	1.1310
11074	D08	1161	2257	FGF12	0.0535	1.1312
11034	E12	3699	7572	ZNF24	0.0536	1.1313
51008	E03	53460	846	CASR	0.0536	1.1314
11060	A10	931	22929	SEPHS1	0.0536	1.1314
11056	F03	8466	10140	TOB1	0.0536	1.1314
51033	C06	54080	170622	COMMD6	0.0536	1.1314
11062	E01	7123	4093	SMAD9	0.0536	1.1314
11070	H05	7203	84861	KLHL22	0.0536	1.1315
11046	F01	4604	65987	KCTD14	0.0537	1.1315
31019	C09	13036	493911	PHOSPHO2	0.0537	1.1316
11064	H10	7215	190	NR0B1	0.0537	1.1316
51024	B09	55173	255631	COL24A1	0.0537	1.1316
31010	D05	11610	83450	LRRC48	0.0537	1.1316
11086	D11	1886	133121	ENPP6	0.0537	1.1317
51002	B03	54770	645010	FLJ16126	0.0538	1.1318
11070	G01	244	9817	KEAP1	0.0538	1.1318
11044	C08	5021	84769	MPV17L2	0.0538	1.1318
11007	F09	7564	57097	PARP11	0.0538	1.1319
11053	B05	5269	29115	SAP30BP	0.0538	1.1319
11065	C05	2163	51175	TUBE1	0.0539	1.1320
11059	F07	5798	55	ACPP	0.0539	1.1321
11035	C01	3690	51400	PPME1	0.0539	1.1321
31017	B08	13055	29034	CPS1IT1	0.0539	1.1322
11054	D08	7062	826	CAPNS1	0.0539	1.1322
11045	G02	8683	2972	BRF1	0.0540	1.1323
51011	B11	54846	133746	JMY	0.0540	1.1323
11077	C02	3016	51062	ATL1	0.0540	1.1323
11015	A04	9003	6789	STK4	0.0540	1.1323
31013	E05	12251	5602	MAPK10	0.0540	1.1324
11053	B02	4401	54093	SETD4	0.0540	1.1324
11065	D07	4157	55063	ZCWPW1	0.0540	1.1324
11009	E08	8751	54828	BCAS3	0.0541	1.1326
31034	A04	14990	55687	TRMU	0.0541	1.1326

11007	C07	6378	51528	JKAMP	0.0541	1.1326
31038	E08	4716	9741	LAPTM4A	0.0541	1.1327
11070	B06	4946	5798	PTPRN	0.0541	1.1327
11077	B06	1596	80321	CEP70	0.0541	1.1327
31033	C03	14813	140886	PABPC5	0.0541	1.1327
31008	C05	11741	84268	RPAIN	0.0541	1.1328
11073	G05	8902	3910	LAMA4	0.0541	1.1328
11045	C04	8897	64781	CERK	0.0542	1.1328
31016	F08	12535	11277	TREX1	0.0543	1.1331
51027	A03	53168	9108	MTMR7	0.0543	1.1331
11064	A02	7599	125170	SMCR7	0.0543	1.1332
11046	A11	4758	64785	GINS3	0.0543	1.1332
11022	E08	7358	64969	MRPS5	0.0543	1.1332
11051	A12	6123	23016	EXOSC7	0.0543	1.1333
31017	C03	12653	10667	FARS2	0.0543	1.1333
31016	D12	12407	51466	EVL	0.0544	1.1333
31042	E05	6456	51009	DERL2	0.0544	1.1334
11084	A02	1009	25796	PGLS	0.0544	1.1334
11006	G02	8513	496	ATP4B	0.0544	1.1334
11029	A12	1239	84945	ABHD13	0.0544	1.1334
11065	H05	5398	6470	SHMT1	0.0544	1.1335
31043	F05	7781	10480	EIF3M	0.0544	1.1335
51014	H11	53001	27159	CHIA	0.0544	1.1335
11028	B06	2638	93109	TMEM44	0.0544	1.1335
11014	C04	158	322	APBB1	0.0544	1.1336
11032	B06	6627	132001	C3orf31	0.0545	1.1336
51011	F02	53033	139221	MUM1L1	0.0545	1.1337
11047	H01	9932	378108	TRIM74	0.0545	1.1337
11051	D02	2552	51633	OTUD6B	0.0545	1.1337
51016	E05	56310	NA	NA	0.0545	1.1337
11005	E05	10079	7171	TPM4	0.0545	1.1338
31015	E04	12717	8896	BUD31	0.0545	1.1338
11017	D06	6898	55273	TMEM100	0.0545	1.1338
31026	A05	13829	90427	BMF	0.0545	1.1338
11011	D11	3455	2625	GATA3	0.0545	1.1338
51030	G06	6750	9374	PPT2	0.0546	1.1339
11088	B03	9660	157378	TMEM65	0.0546	1.1339
11011	A12	109	10474	TADA3	0.0546	1.1340
11010	F10	6772	1267	CNP	0.0546	1.1340
11068	G01	5106	7695	ZNF136	0.0546	1.1341
11058	E01	8431	10164	CHST4	0.0546	1.1341
11007	E04	5720	8666	EIF3G	0.0547	1.1341
11041	B09	2526	10572	SIVA1	0.0547	1.1342
11086	A06	3627	6241	RRM2	0.0547	1.1342

11062	A11	8472	54474	KRT20	0.0547	1.1342
11029	B02	3609	379	ARL4D	0.0547	1.1342
51027	G07	56919	2099	ESR1	0.0547	1.1343
11008	F09	5828	3105	HLA-A	0.0547	1.1343
11011	C10	4128	25771	TBC1D22A	0.0548	1.1344
31015	C03	12712	83608	C18orf21	0.0548	1.1344
31033	D05	14699	10025	MED16	0.0548	1.1344
51006	D03	55291	57140	RNPEPL1	0.0548	1.1345
31045	E02	756	6885	MAP3K7	0.0548	1.1345
11064	G03	2849	30001	ERO1L	0.0548	1.1345
11003	F03	6206	51228	GLTP	0.0548	1.1346
31012	B02	12046	23479	ISCU	0.0549	1.1347
11022	F04	7893	79816	TLE6	0.0549	1.1347
51003	H10	52786	441251	SPDYE7P	0.0549	1.1348
51015	B11	53076	283629	TSSK4	0.0549	1.1348
11073	E08	4583	808	CALM3	0.0549	1.1349
11072	E05	6873	7088	TLE1	0.0550	1.1349
11037	G10	5215	1690	COCH	0.0550	1.1349
51014	B09	52759	266629	SEC14L3	0.0550	1.1349
11053	F06	4864	55313	CPPED1	0.0550	1.1349
31010	D07	11459	28982	FLVCR1	0.0550	1.1350
11018	D11	7157	23704	KCNE4	0.0550	1.1351
51022	E11	55929	10461	MERTK	0.0550	1.1351
11042	G06	2612	7069	THRSP	0.0551	1.1352
11007	A11	6693	51070	NOSIP	0.0551	1.1353
11007	G01	3330	10987	COPS5	0.0551	1.1353
11039	F07	6813	9925	ZBTB5	0.0551	1.1353
11055	C01	4258	10066	SCAMP2	0.0551	1.1353
11076	H07	344	5019	OXCT1	0.0551	1.1354
11011	C03	7938	2639	GCDH	0.0551	1.1354
51028	G03	53266	25940	FAM98A	0.0552	1.1354
51013	E06	53120	140890	SFRS12	0.0552	1.1355
51035	G01	54601	911	CD1C	0.0552	1.1355
31022	A03	13516	56655	POLE4	0.0552	1.1356
51030	H10	54108	138649	ANKRD19	0.0552	1.1356
11062	D02	1510	86	ACTL6A	0.0553	1.1357
51017	H05	56148	859	CAV3	0.0553	1.1357
11001	H04	10188	160492	IFLTD1	0.0553	1.1357
11040	F02	1622	730094	C16orf52	0.0553	1.1358
51034	E05	54188	50856	CLEC4A	0.0553	1.1358
11002	F05	9734	9246	UBE2L6	0.0553	1.1358
11060	D09	1922	85457	KIAA1737	0.0553	1.1358
11051	B09	695	132200	C3orf49	0.0553	1.1358
31008	H11	11728	24141	C20orf103	0.0553	1.1359

31015	E12	12806	5756	TWF1	0.0554	1.1360
11077	H10	1397	5992	RFX4	0.0554	1.1361
11077	E11	8904	83706	FERMT3	0.0554	1.1361
11018	D12	6333	51374	C2orf28	0.0554	1.1361
11082	G07	7397	81853	TMEM14B	0.0554	1.1361
11012	C03	2996	30001	ERO1L	0.0554	1.1362
11064	D08	1598	8803	SUCLA2	0.0555	1.1363
11013	C10	1883	66036	MTMR9	0.0555	1.1364
11047	C02	174	1748	DLX4	0.0555	1.1364
31015	H05	12566	138716	C9orf23	0.0555	1.1364
31002	D05	10369	9805	SCRN1	0.0556	1.1366
11043	D11	5694	51187	RSL24D1	0.0556	1.1366
11011	B03	7054	50859	SPOCK3	0.0556	1.1366
11018	E08	6353	9527	GOSR1	0.0556	1.1366
11022	G09	3315	79087	ALG12	0.0556	1.1366
31034	E04	14994	6628	SNRPB	0.0556	1.1366
51026	B06	53160	55661	DDX27	0.0556	1.1366
31004	A03	10760	56916	SMARCAD1	0.0556	1.1367
31033	G11	14830	5204	PFDN5	0.0557	1.1367
11046	H03	744	79877	DCAKD	0.0557	1.1367
11011	H01	7648	10227	MFSD10	0.0557	1.1367
11060	F08	8326	3620	IDO1	0.0557	1.1370
51025	H06	53230	10734	STAG3	0.0557	1.1370
51001	E06	56475	153218	SPINK13	0.0558	1.1370
11057	F04	1911	9595	CYTIP	0.0558	1.1371
51008	B11	53679	3912	LAMB1	0.0558	1.1372
11026	G07	3121	10204	NUTF2	0.0558	1.1372
51021	B05	55722	150160	CCT8L2	0.0559	1.1373
11015	B02	5569	5619	PRM1	0.0559	1.1373
31026	H03	13871	64806	IL25	0.0559	1.1373
31016	C06	12539	79701	C17orf101	0.0559	1.1373
11082	F12	7336	8742	TNFSF12	0.0559	1.1374
31020	A04	13148	3082	HGF	0.0559	1.1375
11048	D09	630	23353	SUN1	0.0559	1.1375
11006	A07	6878	5692	PSMB4	0.0560	1.1375
11077	A02	8244	79891	ZNF671	0.0560	1.1376
11066	C09	689	64327	LMBR1	0.0560	1.1377
31014	A04	11884	169611	OLFML2A	0.0560	1.1377
11076	E12	1760	91392	ZNF502	0.0560	1.1377
51017	D03	56431	728276	LOC728276	0.0560	1.1377
31022	D06	13606	4814	NINJ1	0.0561	1.1379
11048	B06	2828	3117	HLA-DQA1	0.0561	1.1380
51024	D10	55152	4625	MYH7	0.0561	1.1380
11011	B08	3902	1173	AP2M1	0.0561	1.1380

11054	E01	4862	7780	SLC30A2	0.0562	1.1381
11008	F08	7482	55343	SLC35C1	0.0562	1.1382
11046	H11	6609	80233	C17orf70	0.0562	1.1382
11014	C01	938	55632	G2E3	0.0562	1.1382
31008	B05	11673	5445	PON2	0.0563	1.1383
51025	F03	53317	23131	GPATCH8	0.0563	1.1384
11089	B04	9279	8778	SIGLEC5	0.0563	1.1384
31007	B08	11075	2185	PTK2B	0.0563	1.1385
11002	E07	9376	128821	CST9L	0.0564	1.1386
11007	H11	7980	5192	PEX10	0.0564	1.1386
31013	G05	12102	6342	SCP2	0.0564	1.1387
31010	A03	11685	2159	F10	0.0564	1.1387
11007	E11	7381	51571	FAM49B	0.0564	1.1387
11067	C10	8125	4752	NEK3	0.0564	1.1388
11006	G06	698	6187	RPS2	0.0564	1.1388
11017	C06	8019	8682	PEA15	0.0565	1.1388
51022	B02	55927	80824	DUSP16	0.0565	1.1389
11088	G07	319	55631	LRRC40	0.0565	1.1389
11076	C05	4152	23536	ADAT1	0.0565	1.1389
31003	H08	10667	5791	PTPRE	0.0565	1.1389
11069	B05	7905	79058	ASPSCR1	0.0565	1.1390
11045	F12	9123	55005	RMND1	0.0565	1.1390
51008	H04	53605	11180	WDR6	0.0565	1.1390
11015	D08	9176	56890	MDM1	0.0565	1.1391
11016	C02	6358	6275	S100A4	0.0565	1.1391
31007	C11	11433	2894	GRID1	0.0566	1.1391
51003	D12	54175	50674	NEUROG3	0.0566	1.1392
31037	C05	13543	126147	NTN5	0.0566	1.1393
11013	E09	2183	84258	SYT3	0.0567	1.1394
31044	G06	4388	79726	WDR59	0.0567	1.1394
11046	F03	4266	79652	TMEM204	0.0567	1.1394
11062	D11	10227	144811	C13orf31	0.0567	1.1395
11067	F06	7812	81704	DOCK8	0.0568	1.1396
31011	D08	12123	128977	C22orf39	0.0568	1.1396
11013	C06	974	79934	ADCK4	0.0568	1.1397
11042	F10	5649	9086	EIF1AY	0.0568	1.1397
11075	G06	8953	1639	DCTN1	0.0568	1.1398
11045	D11	1781	5872	RAB13	0.0568	1.1398
11040	F10	6601	57819	LSM2	0.0568	1.1398
51029	F06	55431	347732	CATSPER3	0.0569	1.1399
51017	C03	56655	5947	RBP1	0.0569	1.1401
11045	H10	694	3569	IL6	0.0569	1.1401
11052	G10	1779	157753	TMEM74	0.0569	1.1401
11036	A10	1018	83989	FAM172A	0.0570	1.1401

11069	C04	9872	150160	CCT8L2	0.0570	1.1402
11040	G05	5691	201895	C4orf34	0.0570	1.1402
11077	A07	2559	2794	GNL1	0.0570	1.1403
11086	A07	6902	79188	TMEM43	0.0570	1.1403
11040	A04	8952	NA	NA	0.0570	1.1404
11060	H05	3818	5705	PSMC5	0.0571	1.1404
11001	E11	10116	128061	C1orf131	0.0571	1.1404
11085	G05	4514	25818	KLK5	0.0571	1.1405
51014	C01	52699	114625	ERMAP	0.0571	1.1406
11008	E12	3143	9798	KIAA0174	0.0571	1.1406
51035	D06	53547	9334	B4GALT5	0.0571	1.1406
11007	F12	3721	11091	WDR5	0.0572	1.1407
11054	F02	8694	8621	CDK13	0.0572	1.1407
11055	E05	9249	160298	C11orf42	0.0572	1.1408
31003	F04	10797	283209	PGM2L1	0.0572	1.1408
11053	C05	9344	81628	TSC22D4	0.0572	1.1409
11049	C05	4940	10723	SLC12A7	0.0573	1.1409
11051	A06	5837	9686	VGLL4	0.0573	1.1410
11034	G03	7995	10171	RCL1	0.0573	1.1411
11058	A02	4768	100	ADA	0.0573	1.1411
11005	B12	8069	5271	SERPINB8	0.0573	1.1411
51004	B03	52660	375323	LHFPL4	0.0573	1.1411
31039	D08	1005	55625	ZDHC7	0.0574	1.1412
11006	C10	3374	54472	TOLLIP	0.0574	1.1412
11049	F05	1476	137392	FAM92A1	0.0574	1.1413
11071	C03	9887	150737	TTC30B	0.0574	1.1413
11056	G03	5574	1022	CDK7	0.0574	1.1414
11014	H11	2977	9862	MED24	0.0574	1.1414
51011	G05	53060	168850	ZNF800	0.0574	1.1414
51014	B12	53137	162417	NAGS	0.0575	1.1414
51029	D12	55446	9637	FEZ2	0.0575	1.1415
11032	G03	8229	131616	TMEM42	0.0575	1.1415
31003	H04	10652	25948	KBTBD2	0.0575	1.1415
11064	G05	4733	1112	FOXN3	0.0576	1.1418
11071	B05	1246	79738	BBS10	0.0576	1.1418
31041	E01	6604	91419	XRCC6BP1	0.0576	1.1419
31039	B06	8623	1871	E2F3	0.0576	1.1419
31001	H07	10495	128989	C22orf25	0.0576	1.1419
51023	D12	56236	90853	SPOCD1	0.0576	1.1419
11062	D09	9263	152404	IGSF11	0.0576	1.1419
31045	G07	8054	9688	NUP93	0.0577	1.1420
11034	A01	3963	55623	THUMPDI	0.0577	1.1420
51026	C01	56939	342357	ZKSCAN2	0.0577	1.1420
11051	G02	8921	3084	NRG1	0.0577	1.1421

11042	C07	5256	6155	RPL27	0.0577	1.1421
11073	E07	1581	131375	LYZL4	0.0577	1.1422
11080	F03	2483	2260	FGFR1	0.0578	1.1423
31026	E03	13786	1750	DLX6	0.0578	1.1423
11084	A09	3276	51081	MRPS7	0.0578	1.1424
11067	B06	7571	114818	KLHL29	0.0578	1.1424
11054	A08	88	134510	UBLCP1	0.0578	1.1424
11034	D10	3165	1819	DRG2	0.0578	1.1424
31007	B07	11271	26512	INTS6	0.0578	1.1424
51022	C10	55877	9152	SLC6A5	0.0579	1.1425
31005	D11	11014	122945	C14orf148	0.0579	1.1425
11081	H03	2527	401505	TOMM5	0.0579	1.1426
11086	H05	7621	8698	S1PR4	0.0579	1.1427
51034	A06	53835	91464	ISX	0.0579	1.1427
11028	B09	3545	51060	TXNDC12	0.0580	1.1427
11018	D09	3673	79177	ZNF576	0.0580	1.1428
51023	H09	54057	4604	MYBPC1	0.0580	1.1429
11045	F04	2315	402573	C7orf61	0.0580	1.1429
31018	H10	12931	113251	LARP4	0.0580	1.1430
31014	F03	12074	79589	RNF128	0.0580	1.1430
31028	F12	14338	81853	TMEM14B	0.0581	1.1430
51034	H05	55005	387496	RASL11A	0.0581	1.1430
51023	H08	56249	23426	GRIP1	0.0581	1.1430
31037	E07	13740	10036	CHAF1A	0.0581	1.1431
11079	E04	7169	25888	ZNF473	0.0581	1.1431
51008	F11	56291	9793	CKAP5	0.0581	1.1432
11081	C05	8654	6767	ST13	0.0581	1.1432
31006	C11	10908	154043	CNKS3	0.0581	1.1432
11085	C08	9428	9050	PSTPIP2	0.0582	1.1433
11005	D10	919	55161	TMEM33	0.0582	1.1433
51026	B08	55225	81844	TRIM56	0.0582	1.1433
11013	D11	8412	124935	SLC43A2	0.0582	1.1433
31020	E08	13070	361	AQP4	0.0582	1.1433
51013	E12	53877	7310	ZRSR1	0.0582	1.1433
31005	C01	11254	51503	CWC15	0.0582	1.1433
51023	D07	56215	3092	HIP1	0.0583	1.1437
51011	F11	52892	9248	GPR50	0.0583	1.1437
11005	F12	8264	123606	NIPA1	0.0583	1.1437
11081	A01	8855	10007	GNPDA1	0.0583	1.1438
51024	A11	54750	81704	DOCK8	0.0584	1.1439
51035	H07	53943	8718	TNFRSF25	0.0584	1.1439
11074	G06	5114	5865	RAB3B	0.0584	1.1439
11083	H08	7040	112817	DHDPSL	0.0584	1.1440
31010	F03	11362	57463	AMIGO1	0.0585	1.1441

11014	D03	26	4670	HNRNPM	0.0585	1.1442
11052	E01	1923	7490	WT1	0.0585	1.1442
11067	C08	6840	92105	INTS4	0.0585	1.1443
31042	C06	7014	93323	HAUS8	0.0585	1.1443
11064	A10	4726	2030	SLC29A1	0.0585	1.1443
11046	G10	8723	129807	NEU4	0.0586	1.1444
31043	D04	6967	26872	STEAP1	0.0586	1.1444
11002	A04	10179	22858	ICK	0.0586	1.1444
11013	G10	2170	3306	HSPA2	0.0586	1.1445
31034	H02	14838	10144	FAM13A	0.0586	1.1445
31044	B09	2110	7141	TNP1	0.0587	1.1446
11014	G10	326	11060	WWP2	0.0587	1.1448
11005	C02	1807	79073	TMEM109	0.0587	1.1448
11069	E06	9390	132612	ADAD1	0.0588	1.1449
31001	D06	10672	353149	TBC1D26	0.0588	1.1450
11013	C12	8474	55867	SLC22A11	0.0588	1.1450
11060	H04	6480	1973	EIF4A1	0.0588	1.1450
11077	C06	3858	55174	INTS10	0.0588	1.1451
11003	C04	10192	54952	TRNAU1AP	0.0589	1.1452
11013	D05	3812	29781	NCAPH2	0.0589	1.1452
11071	C06	498	123169	LEO1	0.0589	1.1452
11063	B10	5035	79944	L2HGDH	0.0589	1.1452
11027	C10	704	3046	HBE1	0.0589	1.1452
11089	D05	2139	414918	FAM116B	0.0589	1.1453
51024	F10	56284	4619	MYH1	0.0589	1.1453
11063	A05	97	392	ARHGAP1	0.0590	1.1454
11068	G03	2386	10276	NET1	0.0590	1.1454
11045	B03	452	29114	TAGLN3	0.0590	1.1454
11071	F04	1696	2982	GUCY1A3	0.0590	1.1455
11012	H01	3962	10946	SF3A3	0.0590	1.1455
31003	D02	10300	64651	CSRNP1	0.0590	1.1456
31010	B09	11536	169841	ZNF169	0.0590	1.1456
31044	F09	1107	116228	FAM36A	0.0590	1.1456
11058	E08	2372	84775	ZNF607	0.0591	1.1457
31040	G04	9683	64963	MRPS11	0.0591	1.1457
11044	F07	3084	3845	KRAS	0.0591	1.1458
31018	C11	12844	54819	ZCCHC10	0.0591	1.1458
11042	C04	2196	4149	MAX	0.0591	1.1459
51005	G02	54274	221391	OPN5	0.0591	1.1459
31012	H09	12303	92344	GORAB	0.0591	1.1459
51006	B12	53469	22864	R3HDM2	0.0592	1.1459
11024	B06	8352	83878	USHBP1	0.0592	1.1460
11043	B12	8893	825	CAPN3	0.0592	1.1460
11081	G08	3428	2787	GNG5	0.0592	1.1460

51026	G04	56682	57673	BEND3	0.0592	1.1460
11008	H02	6224	8531	CSDA	0.0592	1.1460
51005	D12	54709	2570	GABRR2	0.0592	1.1460
51023	D01	56186	55959	SULF2	0.0593	1.1462
51033	G09	54075	128817	CSTL1	0.0593	1.1462
11019	E10	6427	6302	TSPAN31	0.0593	1.1463
51002	B10	52587	84639	IL1F10	0.0593	1.1463
51025	E04	56883	55206	SBNO1	0.0593	1.1463
11056	E10	486	10797	MTHFD2	0.0593	1.1464
11047	E07	4647	9470	EIF4E2	0.0594	1.1465
51026	B05	55707	57554	LRRC7	0.0594	1.1465
31003	F09	10527	257062	TMEM146	0.0594	1.1466
51015	A09	52672	56950	SMYD2	0.0594	1.1466
11019	B10	6314	51207	DUSP13	0.0594	1.1466
11074	G01	4406	5300	PIN1	0.0594	1.1466
31044	F12	8605	79664	NARG2	0.0594	1.1467
51030	H06	55283	5463	POU6F1	0.0594	1.1467
31008	A04	11539	653140	C2orf84	0.0595	1.1467
31027	A12	15045	6249	CLIP1	0.0595	1.1468
11057	F12	4091	7111	TMOD1	0.0595	1.1469
11036	A02	1522	55297	CCDC91	0.0595	1.1469
51011	E11	53009	3702	ITK	0.0595	1.1469
51021	E10	56813	57610	RANBP10	0.0596	1.1470
51001	A09	52569	2691	GHRH	0.0596	1.1470
31037	B03	12738	6926	TBX3	0.0596	1.1471
11019	G05	7398	140801	RPL10L	0.0596	1.1471
11044	C09	8693	79027	ZNF655	0.0596	1.1471
31021	C03	13205	54931	RG9MTD1	0.0596	1.1472
11008	F02	2803	3145	HMBS	0.0596	1.1472
11067	F04	1356	64064	OXCT2	0.0597	1.1472
51010	E02	53070	NA	NA	0.0597	1.1473
51028	E10	56280	170572	HTR3C	0.0597	1.1473
11015	G10	9013	7957	EPM2A	0.0597	1.1474
11030	A01	7	8089	YEATS4	0.0597	1.1475
31043	G03	7762	64080	RBKS	0.0598	1.1477
51024	D09	53620	9743	ARHGAP32	0.0598	1.1477
51034	D07	55025	9473	C1orf38	0.0598	1.1477
11002	G03	5739	79133	C20orf7	0.0598	1.1477
51029	D03	55452	6517	SLC2A4	0.0598	1.1477
31024	C11	13426	55164	SHQ1	0.0599	1.1478
11028	C11	2340	114793	FMNL2	0.0599	1.1479
51005	H04	54204	124	ADH1A	0.0600	1.1480
11012	F06	8537	55716	LMBR1L	0.0600	1.1480
11061	H04	2074	219749	ZNF25	0.0600	1.1481

31002	B05	10573	339779	C2orf53	0.0600	1.1481
11026	D07	9462	51738	GHRL	0.0600	1.1482
11018	D02	6345	8557	TCAP	0.0600	1.1482
11007	E07	5842	8644	AKR1C3	0.0600	1.1482
11011	A10	2920	2670	GFAP	0.0600	1.1483
51027	G03	53373	57794	SF4	0.0601	1.1483
31021	D04	12841	138199	C9orf41	0.0601	1.1483
31017	B07	12533	29967	LRP12	0.0601	1.1485
11034	F03	829	8460	TPST1	0.0602	1.1486
31042	F12	5847	3419	IDH3A	0.0602	1.1487
31034	C01	14941	8073	PTP4A2	0.0602	1.1487
11089	A02	1553	7288	TULP2	0.0602	1.1487
11052	E06	1928	143384	C10orf46	0.0602	1.1487
11059	H06	4756	51268	PIPOX	0.0602	1.1488
11004	A10	1723	150159	NHEDC1	0.0602	1.1488
11020	H04	3287	55092	TMEM51	0.0603	1.1488
31008	E08	11369	135138	PACRG	0.0603	1.1489
51024	B08	55206	22995	CEP152	0.0603	1.1489
11034	B04	986	23543	RBM9	0.0603	1.1489
31019	G08	13292	80896	NPL	0.0603	1.1490
51028	F06	55330	3856	KRT8	0.0603	1.1490
11036	E05	1688	51097	SCCPDH	0.0603	1.1490
51035	F05	54585	729230	CCR2	0.0603	1.1490
31044	B04	4303	10120	ACTR1B	0.0604	1.1491
11055	E09	7324	115330	GPR146	0.0604	1.1492
11046	E03	4192	6757	SSX2	0.0604	1.1493
31037	H09	14196	374875	HSD11B1L	0.0604	1.1493
51010	F03	52984	10125	RASGRP1	0.0604	1.1493
31020	C02	13059	4973	OLR1	0.0604	1.1493
11016	D02	7768	83543	AIF1L	0.0605	1.1494
31001	A03	10298	122664	TPPP2	0.0605	1.1495
11085	F07	305	10953	TOMM34	0.0605	1.1496
51020	G07	56142	1024	CDK8	0.0605	1.1496
11011	D04	784	653121	ZBTB8A	0.0606	1.1496
51011	B04	53648	10716	TBR1	0.0606	1.1497
11075	F05	5463	25816	TNFAIP8	0.0606	1.1497
11038	A10	3361	25917	THUMP3	0.0606	1.1497
31002	B11	10380	160777	CCDC60	0.0606	1.1497
51026	E08	56480	94122	SYTL5	0.0606	1.1497
11043	C11	5511	10200	MPHOSPH6	0.0606	1.1498
31020	A02	13151	125228	C18orf19	0.0607	1.1500
11018	B06	3842	10728	PTGES3	0.0608	1.1502
51031	D09	56221	NA	NA	0.0608	1.1502
11058	H06	6451	5157	PDGFRL	0.0608	1.1503

11014	B10	201	9189	ZBED1	0.0608	1.1503
51032	E06	55321	79068	FTO	0.0608	1.1503
31036	H01	11091	9917	FAM20B	0.0608	1.1503
11086	D06	910	3421	IDH3G	0.0608	1.1503
11044	G11	3068	115265	DDIT4L	0.0608	1.1503
11005	H02	1992	84064	HDHD2	0.0608	1.1503
11010	D04	2722	27034	ACAD8	0.0608	1.1504
31043	E03	7404	120379	PIH1D2	0.0609	1.1504
11003	C11	5425	58526	MID1IP1	0.0609	1.1504
51014	D03	54529	136371	ASB10	0.0609	1.1506
31044	E09	1090	10158	PDZK1IP1	0.0609	1.1506
31008	B04	11505	916	CD3E	0.0609	1.1506
31032	D10	14821	7173	TPO	0.0609	1.1506
31005	H11	11258	6609	SMPD1	0.0610	1.1507
11028	H05	4703	6143	RPL19	0.0610	1.1508
11082	F02	2310	NA	NA	0.0610	1.1508
11070	E06	10081	117178	SSX2IP	0.0610	1.1509
51026	F01	53263	22803	XRN2	0.0610	1.1509
51001	F12	53026	7349	UCN	0.0610	1.1509
51030	E04	55694	NA	NA	0.0610	1.1509
51014	D06	52663	26140	TTLL3	0.0611	1.1509
51005	E11	55491	79894	ZNF672	0.0611	1.1510
51013	B06	52840	10849	CD3EAP	0.0611	1.1511
31002	F01	10796	2359	FPR3	0.0611	1.1511
11070	B01	6557	55072	RNF31	0.0612	1.1513
11064	D05	6901	10445	MCRS1	0.0612	1.1513
51021	F12	56642	79173	C19orf57	0.0612	1.1514
51021	A08	55848	26507	CNNM1	0.0612	1.1514
11026	E06	8798	5995	RGR	0.0613	1.1516
31039	A04	9512	51542	VPS54	0.0613	1.1516
11001	F04	654	4709	NDUFB3	0.0613	1.1516
11063	B03	4561	80301	PLEKHO2	0.0613	1.1517
51028	D09	54296	3860	KRT13	0.0614	1.1517
11006	B06	7973	9445	ITM2B	0.0615	1.1520
11025	B03	10145	8509	NDST2	0.0615	1.1520
51025	G11	55234	92521	CYTSB	0.0615	1.1521
51023	B05	56202	1434	CSEIL	0.0615	1.1521
11049	D04	4037	4316	MMP7	0.0615	1.1521
11085	A01	3272	4837	NNMT	0.0616	1.1523
11062	G07	2293	167359	MGC42105	0.0616	1.1523
31008	E04	11518	64284	RAB17	0.0616	1.1523
11001	A08	8748	10554	AGPAT1	0.0616	1.1524
11002	H08	10057	3198	HOXA1	0.0616	1.1525
11007	H01	5420	51635	DHRS7	0.0616	1.1525

51033	G03	55510	730441	LOC730441	0.0617	1.1526
11079	C03	7990	7272	TTK	0.0617	1.1526
11002	D11	9200	285154	C2orf58	0.0617	1.1526
11014	E11	1729	2891	GRIA2	0.0617	1.1527
11052	B05	3171	5824	PEX19	0.0617	1.1527
51005	C01	54139	348303	SELV	0.0617	1.1527
11056	G04	5983	6903	TBCC	0.0617	1.1528
11081	C02	9138	55679	LIMS2	0.0618	1.1530
31019	F02	13219	493869	GPX8	0.0619	1.1531
11039	A04	2579	64837	KLC2	0.0619	1.1532
11066	B01	1882	153396	TMEM161B	0.0619	1.1532
11001	A10	9786	90317	ZNF616	0.0619	1.1533
31011	F07	12374	51182	HSPA14	0.0619	1.1533
11015	G05	3814	55969	C20orf24	0.0620	1.1534
11036	E06	2143	51166	AADAT	0.0620	1.1534
11003	F05	6125	196383	RILPL2	0.0620	1.1534
11077	C09	8325	2811	GP1BA	0.0620	1.1535
51032	H02	56847	285636	C5orf51	0.0620	1.1535
11056	G05	8384	922	CD5L	0.0620	1.1535
11072	A05	8141	84708	LNX1	0.0620	1.1536
11054	H01	3841	8668	EIF3I	0.0620	1.1536
51002	C04	54991	401172	FLJ33360	0.0621	1.1536
11043	D09	4421	79001	VKORC1	0.0621	1.1537
11005	F06	1243	5621	PRNP	0.0621	1.1538
31016	A10	12460	4212	MEIS2	0.0622	1.1539
11044	A01	9129	5998	RGS3	0.0622	1.1539
11054	D12	2532	79873	NUDT18	0.0622	1.1539
31009	A03	11720	84866	TMEM25	0.0622	1.1540
31008	E03	11772	3093	UBE2K	0.0622	1.1540
11076	C07	3748	217	ALDH2	0.0622	1.1541
51006	E01	54290	136991	ASZ1	0.0622	1.1541
11071	D01	9687	5884	RAD17	0.0622	1.1541
11051	H06	1070	90268	FAM105B	0.0622	1.1541
51013	A04	52730	147948	ZNF582	0.0623	1.1542
11066	C05	8471	23646	PLD3	0.0623	1.1543
31026	F12	13900	1948	EFNB2	0.0623	1.1543
11053	D07	5088	3423	IDS	0.0623	1.1543
51023	F11	54183	5332	PLCB4	0.0623	1.1543
31010	C03	11719	9068	ANGPTL1	0.0623	1.1543
11005	D01	2563	2258	FGF13	0.0623	1.1543
11079	B06	3215	9747	FAM115A	0.0623	1.1543
11072	H06	2316	5298	PI4KB	0.0624	1.1544
51033	H04	53630	84560	MT4	0.0624	1.1545
11026	B06	2808	6357	CCL13	0.0624	1.1545

31027	B11	15036	753	C18orf1	0.0624	1.1545
11079	A02	3032	9787	DLGAP5	0.0624	1.1545
11017	H05	8829	9589	WTAP	0.0624	1.1545
31014	B06	12271	NA	NA	0.0624	1.1546
11009	C04	6769	29956	LASS2	0.0625	1.1547
51003	G01	54952	399886	FLJ41423	0.0625	1.1547
31033	E01	14754	4035	LRP1	0.0625	1.1547
51001	D11	52662	169200	TMEM64	0.0625	1.1547
11014	G03	758	10312	TCIRG1	0.0625	1.1548
11050	A02	4199	27292	DIMT1L	0.0625	1.1548
11019	C03	6592	57132	CHMP1B	0.0625	1.1549
31017	B03	12730	9489	PGS1	0.0626	1.1549
11063	B11	5045	5360	PLTP	0.0626	1.1550
11058	C02	4942	3623	INHA	0.0626	1.1550
51027	B02	56810	9846	GAB2	0.0626	1.1550
51014	F07	52765	166785	MMAA	0.0626	1.1550
51030	B02	53213	392307	C9orf128	0.0626	1.1551
11027	D04	8757	53833	IL20RB	0.0626	1.1551
11029	C07	4707	4085	MAD2L1	0.0626	1.1552
11048	H05	5205	6689	SPIB	0.0627	1.1553
11005	H08	1096	3927	LASP1	0.0627	1.1554
31006	C02	11270	10062	NR1H3	0.0628	1.1555
31036	C11	12506	257019	FRMD3	0.0628	1.1556
11070	A11	2261	29979	UBQLN1	0.0628	1.1557
51002	B11	52634	339302	CPLX4	0.0628	1.1557
11051	E08	332	3921	RPSA	0.0629	1.1559
11010	H03	682	8436	SDPR	0.0629	1.1559
11050	F05	802	51105	PHF20L1	0.0630	1.1560
31022	B08	13347	219938	SPATA19	0.0630	1.1561
11060	D04	8049	53637	S1PR5	0.0630	1.1561
31042	C12	5083	84306	PDCD2L	0.0630	1.1561
31042	H05	6703	23399	DULLARD	0.0630	1.1561
31044	D12	2435	10212	DDX39	0.0630	1.1562
11064	G01	5092	1198	CLK3	0.0630	1.1562
31018	G01	13195	5930	RBBP6	0.0631	1.1563
11056	E02	433	7737	RNF113A	0.0631	1.1564
51032	E09	56416	400696	LGALS17A	0.0631	1.1565
51031	D08	53368	25950	RWDD3	0.0631	1.1565
31012	E02	12089	10542	HBXIP	0.0631	1.1565
11069	A06	359	875	CBS	0.0632	1.1565
11084	C05	4836	57414	RHBDD2	0.0632	1.1566
11054	A01	2446	10399	GNB2L1	0.0632	1.1567
51028	A10	55307	63898	SH2D4A	0.0632	1.1567
11051	H10	904	509	ATP5C1	0.0632	1.1567

11013	B01	2347	3839	KPNA3	0.0633	1.1568
11066	C03	7612	122618	PLD4	0.0633	1.1569
51025	G01	56294	8826	IQGAPI	0.0633	1.1569
31002	B04	10548	7881	KCNAB1	0.0633	1.1569
31015	D06	12553	26127	FGFR1OP2	0.0633	1.1569
51032	H10	55284	728131	RPS6P6	0.0633	1.1569
31039	C10	2715	5536	PPP5C	0.0633	1.1569
11070	G08	267	84455	EFCAB7	0.0633	1.1570
51014	A02	53715	9628	RGS6	0.0633	1.1570
31003	C02	10461	168374	ZNF92	0.0634	1.1571
11087	E08	1978	8493	PPM1D	0.0634	1.1572
11014	H07	2948	57704	GBA2	0.0634	1.1572
11037	C10	6830	9721	GPRIN2	0.0634	1.1572
11011	E01	2711	2625	GATA3	0.0634	1.1572
11076	C02	4556	10439	OLFM1	0.0635	1.1573
31043	E09	7622	57147	SCYL3	0.0635	1.1573
11064	E07	5774	83540	NUF2	0.0635	1.1574
11022	D04	7309	90956	ADCK2	0.0635	1.1574
11059	F04	4510	53918	PELO	0.0635	1.1574
51021	E06	56166	8317	CDC7	0.0635	1.1575
11047	F08	6815	79734	KCTD17	0.0635	1.1576
11055	D12	8886	2065	ERBB3	0.0636	1.1577
11056	A06	1484	84224	NBPF3	0.0636	1.1578
11035	G02	3453	10540	DCTN2	0.0636	1.1578
11032	F02	8643	1297	COL9A1	0.0637	1.1578
51002	B09	54624	257357	NCRNA00257	0.0637	1.1579
11044	A07	5737	2512	FTL	0.0638	1.1581
11037	A10	7977	5118	PCOLCE	0.0638	1.1581
11076	F03	3822	55355	HJURP	0.0638	1.1583
11067	B11	7827	57104	PNPLA2	0.0638	1.1583
51012	C11	55119	113612	CYP2U1	0.0639	1.1585
11068	B06	9654	221188	GPR114	0.0639	1.1585
11087	B08	2963	5347	PLK1	0.0639	1.1586
11034	C02	3449	29925	GMPPB	0.0639	1.1586
11043	C03	8282	153328	SLC25A48	0.0639	1.1586
11053	D06	4305	80775	TMEM177	0.0639	1.1586
51032	B08	56439	9220	TIAF1	0.0640	1.1586
11004	C07	3102	51661	FKBP7	0.0640	1.1587
11059	E07	6819	11135	CDC42EP1	0.0640	1.1587
51009	E02	52972	57828	CATSPERG	0.0640	1.1588
11046	A07	6684	539	ATP5O	0.0640	1.1588
11011	E02	4567	10948	STARD3	0.0640	1.1588
11071	E08	9665	152579	SCFD2	0.0640	1.1588
31023	E01	13449	81888	HYI	0.0640	1.1588

11050	F04	386	6770	STAR	0.0640	1.1588
31002	F03	10416	5270	SERPINE2	0.0640	1.1588
11028	C07	6096	4358	MPV17	0.0640	1.1589
11076	F05	4784	23438	HARS2	0.0641	1.1589
11034	A09	6808	23770	FKBP8	0.0641	1.1589
11047	B05	4366	54926	UBE2R2	0.0641	1.1590
31004	B11	11226	91608	RASL10B	0.0641	1.1590
11064	E06	5316	84969	TOX2	0.0641	1.1590
11080	F12	9991	9726	ZNF646	0.0641	1.1591
11011	E05	6072	3646	EIF3E	0.0641	1.1591
31039	D07	3101	2014	EMP3	0.0642	1.1592
11066	H03	98	4205	MEF2A	0.0642	1.1593
11032	D05	7076	5501	PPP1CC	0.0642	1.1593
11036	H03	4018	5700	PSMC1	0.0642	1.1593
11044	D05	233	4237	MFAP2	0.0643	1.1595
11055	E10	535	2108	ETFA	0.0643	1.1596
51031	F12	55332	55337	C19orf66	0.0643	1.1596
31031	C05	14560	6997	TDGF1	0.0643	1.1596
31031	C03	14565	6504	SLAMF1	0.0643	1.1597
11013	B11	6632	25839	COG4	0.0643	1.1597
51035	C08	54640	200734	SPRED2	0.0644	1.1599
51022	E03	55728	2038	EPB42	0.0644	1.1600
31037	G05	14076	57152	SLURP1	0.0645	1.1600
31040	G05	9338	83734	ATG10	0.0645	1.1601
51024	E05	55150	27030	MLH3	0.0645	1.1601
51008	B02	54022	79595	SAP130	0.0646	1.1603
31008	A09	11344	11202	KLK8	0.0646	1.1603
11050	B01	6369	51319	RSRC1	0.0646	1.1603
11022	E10	6707	26086	GPSM1	0.0646	1.1604
11069	G09	4352	25930	PTPN23	0.0646	1.1604
11056	D08	6801	112942	CCDC104	0.0646	1.1604
51027	D09	53250	2530	FUT8	0.0646	1.1604
51005	B05	54903	3199	HOXA2	0.0646	1.1604
31029	D11	14418	400566	C17orf97	0.0646	1.1604
11048	B09	8560	84196	USP48	0.0646	1.1604
11035	H03	965	1974	EIF4A2	0.0647	1.1605
51002	D01	52901	283152	CCDC153	0.0647	1.1606
11057	G07	9327	7472	WNT2	0.0647	1.1607
31004	C05	11027	4009	LMX1A	0.0647	1.1607
11064	E05	4717	55165	CEP55	0.0648	1.1608
31011	F09	12402	9537	TP53I11	0.0648	1.1609
11052	B08	720	8771	TNFRSF6B	0.0648	1.1610
31042	H11	4950	55248	TMEM206	0.0648	1.1610
11014	G06	1055	9392	TGFBRAP1	0.0648	1.1610

11059	B02	8978	27161	EIF2C2	0.0649	1.1611
11035	D06	3394	51307	FAM53C	0.0649	1.1611
11074	G09	1381	55776	C6orf64	0.0649	1.1611
11016	A09	5659	171489	SPANXE	0.0649	1.1612
11055	D01	3788	5499	PPP1CA	0.0649	1.1612
11059	G03	1592	7781	SLC30A3	0.0649	1.1613
11003	E09	2107	83941	TM2D1	0.0650	1.1613
11034	D04	3373	5094	PCBP2	0.0651	1.1616
51035	D04	54582	134353	LSM11	0.0651	1.1617
51027	H08	56790	8785	MATN4	0.0651	1.1618
11058	C07	2115	63946	DMRTC2	0.0651	1.1618
51033	B05	54493	245936	DEFB123	0.0651	1.1618
11036	B11	6611	80146	UXS1	0.0652	1.1619
11009	E12	5939	54934	C12orf41	0.0652	1.1620
11037	A08	6943	55039	TRMT12	0.0652	1.1620
51025	B02	56884	23318	ZCCHC11	0.0652	1.1621
11075	C02	4232	5879	RAC1	0.0652	1.1621
31026	G08	13847	8074	FGF23	0.0653	1.1622
31014	C03	12349	51447	IP6K2	0.0653	1.1622
11006	H05	1427	2669	GEM	0.0653	1.1623
11003	D05	6263	81579	PLA2G12A	0.0653	1.1623
51032	B01	11994	79752	ZFAND1	0.0654	1.1625
11069	C05	6508	131034	CPNE4	0.0654	1.1626
11018	D08	3452	29083	GTPBP8	0.0654	1.1626
11063	C10	3825	203068	TUBB	0.0654	1.1626
11048	G01	3950	761	CA3	0.0655	1.1627
11056	F01	3955	8702	B4GALT4	0.0655	1.1627
11045	E10	6586	90355	C5orf30	0.0655	1.1628
11040	F06	983	58515	SELK	0.0655	1.1628
11002	H05	5611	55312	RFK	0.0655	1.1628
51002	G04	55111	NA	NA	0.0655	1.1628
51016	B04	55932	25859	PART1	0.0655	1.1628
31007	B01	10855	1820	ARID3A	0.0655	1.1629
51022	F06	56677	3320	HSP90AA1	0.0655	1.1629
11022	F03	9128	84196	USP48	0.0656	1.1630
11084	C03	2698	7165	TPD52L2	0.0656	1.1632
51028	G07	55443	55733	HHAT	0.0656	1.1632
11040	E09	7906	26520	TIMM9	0.0657	1.1632
11076	B06	9505	54531	MIER2	0.0657	1.1633
11010	A05	117	124583	CANT1	0.0657	1.1634
11002	G01	9508	282966	C10orf53	0.0657	1.1634
11036	C12	6376	6947	TCN1	0.0657	1.1634
51034	B03	53688	282616	IL28A	0.0657	1.1634
51024	F12	56299	779	CACNA1S	0.0657	1.1634

11056	D12	5945	29907	SNX15	0.0658	1.1635
11083	C05	8608	81831	NETO2	0.0658	1.1636
11060	B08	9219	165100	C2orf57	0.0658	1.1637
31042	D12	5970	57761	TRIB3	0.0659	1.1638
51033	G07	54169	149837	LOC149837	0.0659	1.1638
51022	A07	55867	10003	NAALAD2	0.0659	1.1638
51004	A02	55052	388284	C16orf86	0.0659	1.1638
11079	A11	2044	23039	XPO7	0.0659	1.1639
11053	H07	4225	10362	HMG20B	0.0659	1.1639
51028	H11	53322	5393	EXOSC9	0.0659	1.1640
11074	D05	1527	5535	PPP3R2	0.0660	1.1640
51016	F07	56738	151300	LOC151300	0.0660	1.1640
51002	E12	54706	440337	LOC440337	0.0660	1.1641
11052	E04	4294	79714	CCDC51	0.0660	1.1641
51024	E01	55146	8243	SMC1A	0.0660	1.1642
51014	A08	52777	285671	RNF180	0.0661	1.1643
11051	E03	4978	23567	ZNF346	0.0661	1.1643
51006	A08	53471	7586	ZKSCAN1	0.0661	1.1643
11076	D01	5585	1410	CRYAB	0.0661	1.1643
11012	G01	5439	64170	CARD9	0.0661	1.1645
51011	F04	54642	154796	AMOT	0.0661	1.1645
51028	F07	56465	378807	CATSPER4	0.0661	1.1645
11077	G02	1558	3267	AGFG1	0.0662	1.1645
51033	H08	54173	134466	ZNF300P1	0.0662	1.1646
11014	C02	4579	55726	C12orf11	0.0662	1.1646
51028	G06	53239	11016	ATF7	0.0662	1.1646
11061	F04	9993	93134	ZNF561	0.0662	1.1647
11024	E06	9499	55024	BANK1	0.0662	1.1647
51009	G06	54919	2914	GRM4	0.0663	1.1648
11034	E10	3732	7389	UROD	0.0663	1.1649
11052	D01	1621	53336	CPXCR1	0.0663	1.1649
11085	A08	1146	64114	TMBIM1	0.0663	1.1649
51018	G05	56094	146310	RNF151	0.0663	1.1649
51004	F07	54980	3167	HMX2	0.0663	1.1649
51025	H09	56923	57337	SENP7	0.0663	1.1650
11043	E05	4840	55194	FAM176B	0.0663	1.1651
51014	F12	52814	26468	LHX6	0.0664	1.1652
51031	A01	56497	NA	NA	0.0664	1.1653
51026	E01	55376	140699	C20orf132	0.0664	1.1653
11061	C04	9689	79670	ZCCHC6	0.0665	1.1653
11005	A11	6270	57348	TTYH1	0.0665	1.1653
51021	D02	55824	93107	KCNG4	0.0665	1.1654
31034	E02	14961	200810	ALG1L	0.0665	1.1655
51005	C09	53847	349667	RTN4RL2	0.0665	1.1656

11072	G02	7450	4686	NCBP1	0.0666	1.1657
11074	G05	9032	5970	RELA	0.0666	1.1658
11066	D03	1047	27342	RABGEF1	0.0667	1.1659
51025	F04	56336	90957	DHX57	0.0667	1.1659
11005	E09	726	83871	RAB34	0.0667	1.1660
51035	F08	54270	158506	ZNF645	0.0667	1.1660
11077	G04	3799	10906	TRAFD1	0.0667	1.1660
11044	H01	1478	8048	CSRP3	0.0667	1.1661
11060	F06	5700	6406	SEMG1	0.0668	1.1662
11040	A03	4244	84757	MGC10814	0.0668	1.1662
11051	H09	427	293	SLC25A6	0.0668	1.1663
11064	F05	4102	310	ANXA7	0.0668	1.1664
11035	A07	2455	5573	PRKARIA	0.0669	1.1665
11045	F11	9611	23530	NNT	0.0669	1.1665
11072	C01	1505	10308	ZNF267	0.0669	1.1666
11082	B08	8793	55114	ARHGAP17	0.0670	1.1669
11013	B02	6742	23636	NUP62	0.0670	1.1669
51011	F08	52964	257240	KLHL34	0.0670	1.1669
11018	E12	9121	113201	CASC4	0.0670	1.1669
11043	B11	4584	51596	CUTA	0.0671	1.1670
31002	H03	10543	86614	HSFY1	0.0671	1.1670
31003	F10	10519	11011	TLK2	0.0672	1.1673
11022	G07	4711	7372	UMPS	0.0672	1.1673
31011	A07	12035	64073	C19orf33	0.0672	1.1673
51008	H11	55190	29072	SETD2	0.0672	1.1674
31017	E09	12881	5569	PKIA	0.0672	1.1674
31022	G02	13560	3481	IGF2	0.0672	1.1674
51023	H01	56080	285025	CCDC141	0.0672	1.1674
11011	F11	1072	10376	TUBA1B	0.0672	1.1675
51035	D02	53690	11046	SLC35D2	0.0672	1.1675
11062	D12	4114	6296	ACSM3	0.0672	1.1675
11056	C07	9383	140691	TRIM69	0.0673	1.1675
11018	D03	6717	148753	FAM163A	0.0673	1.1675
11066	D12	277	63894	VIPAR	0.0673	1.1676
11013	G07	2299	1780	DYNC111	0.0673	1.1677
11085	B01	1488	56	ACRV1	0.0674	1.1679
11013	A01	6499	25917	THUMPD3	0.0674	1.1679
11084	B05	4467	5715	PSMD9	0.0674	1.1680
11005	A01	8575	80724	ACAD10	0.0674	1.1680
11063	B05	4180	84725	PLEKHA8	0.0674	1.1680
11001	A01	9994	84240	ZCCHC9	0.0674	1.1680
11051	D01	2476	255520	ELMOD2	0.0675	1.1681
11056	A03	4309	23780	APOL2	0.0675	1.1681
31015	G11	12565	5687	PSMA6	0.0675	1.1681

51021	C08	56629	1131	CHRM3	0.0675	1.1681
11043	A07	5577	83544	DNAL1	0.0675	1.1681
51024	A03	53498	23090	ZNF423	0.0675	1.1682
11068	G09	7267	1545	CYP1B1	0.0675	1.1682
51001	C09	52599	317702	VN1R3	0.0675	1.1682
51004	D06	54970	196541	C13orf39	0.0676	1.1684
31034	B02	14923	8749	ADAM18	0.0676	1.1685
51027	H04	56908	91893	FDXACB1	0.0676	1.1685
11055	G11	5179	26229	B3GAT3	0.0676	1.1685
51014	G03	52680	55721	IQCC	0.0676	1.1685
11064	D07	7700	57117	INTS12	0.0677	1.1686
11082	E07	6439	1603	DAD1	0.0677	1.1686
11065	E08	1463	11036	GTF2A1L	0.0677	1.1687
11013	D01	5243	875	CBS	0.0677	1.1687
51002	B01	54661	552900	BOLA2	0.0677	1.1687
11054	A12	337	113157	RPLP0P2	0.0677	1.1688
11073	E04	4248	9547	CXCL14	0.0677	1.1688
11064	B04	9340	80341	BPIL1	0.0678	1.1688
11050	F10	2756	55837	EAPP	0.0678	1.1690
11011	C07	6264	84892	C3orf39	0.0678	1.1690
11011	B09	8696	64151	NCAPG	0.0678	1.1690
11014	F07	4744	5211	PFKL	0.0678	1.1691
51030	G04	55408	5602	MAPK10	0.0678	1.1691
11045	H06	4092	5480	PPIC	0.0679	1.1691
51012	H07	52933	80162	ATHL1	0.0679	1.1691
11061	H09	4106	27237	ARHGEF16	0.0679	1.1693
11021	A06	7264	3487	IGFBP4	0.0679	1.1693
51021	D05	56623	56203	LMOD3	0.0679	1.1693
31015	B12	12725	146225	CMTM2	0.0679	1.1693
31040	E05	10158	6327	SCN2B	0.0680	1.1694
11084	B10	9554	NA	NA	0.0680	1.1694
11067	F05	6068	6692	SPINT1	0.0680	1.1695
31045	F01	2895	5546	PRCC	0.0681	1.1696
11070	A09	10168	51314	TXNDC3	0.0681	1.1697
11017	C10	9167	NA	NA	0.0681	1.1697
31041	D07	6188	84858	ZNF503	0.0681	1.1698
51001	E12	55338	222699	LOC222699	0.0681	1.1698
11022	C08	7902	84899	TMTC4	0.0681	1.1699
51031	B08	56894	113419	TEX261	0.0682	1.1700
11073	B10	4236	51024	FIS1	0.0682	1.1700
31004	H11	11293	84545	MRPL43	0.0682	1.1701
11051	A07	2560	54332	GDAP1	0.0682	1.1701
11086	H03	1824	23640	HSPBP1	0.0682	1.1701
51032	E05	56106	85291	KRTAP4-2	0.0682	1.1701

11057	A06	9889	23483	TGDS	0.0682	1.1701
11024	H02	10103	11108	PRDM4	0.0683	1.1704
11028	G06	94	90701	SEC11C	0.0683	1.1704
11072	G08	2573	5786	PTPRA	0.0684	1.1705
11015	F08	6753	27089	UQCRQ	0.0684	1.1705
31006	B08	11278	671	BPI	0.0684	1.1706
11050	B05	9767	55852	TEX2	0.0685	1.1707
11034	F09	3967	10244	RABEPK	0.0685	1.1707
31027	H04	13946	3356	HTR2A	0.0685	1.1708
11017	G08	7417	3925	STMN1	0.0685	1.1708
11011	H03	6733	642	BLMH	0.0685	1.1709
31020	G01	12932	9023	CH25H	0.0685	1.1709
51004	C05	55223	326625	MMAB	0.0686	1.1710
11019	C05	6908	8677	STX10	0.0686	1.1712
31014	G07	12392	55635	DEPDC1	0.0687	1.1713
11036	G11	9217	51281	ANKMY1	0.0687	1.1714
11035	H10	6296	6005	RHAG	0.0688	1.1716
11055	C04	9928	2827	GPR3	0.0688	1.1716
11066	E07	2530	7358	UGDH	0.0688	1.1716
11049	H02	1498	83983	TSSK6	0.0688	1.1717
31010	G01	11396	80818	ZNF436	0.0688	1.1718
51027	F07	55497	2322	FLT3	0.0689	1.1718
11032	H03	9814	79621	RNASEH2B	0.0689	1.1718
51021	C06	56645	51134	CCDC41	0.0689	1.1719
31031	F10	14599	2828	GPR4	0.0689	1.1720
31002	B12	10291	1809	DPYSL3	0.0690	1.1721
11067	G10	7586	80115	BAIAP2L2	0.0690	1.1721
11047	A02	9601	3535	IGL@	0.0690	1.1721
31021	F03	13161	64174	DPEP2	0.0690	1.1721
51008	F09	56072	5789	PTPRD	0.0690	1.1721
11068	F02	4302	80256	KIAA1539	0.0690	1.1722
51011	B09	53013	27124	INPP5J	0.0690	1.1723
11065	C09	9713	7942	TFEB	0.0690	1.1723
11009	C11	3682	3420	IDH3B	0.0690	1.1723
31005	E03	10895	1675	CFD	0.0691	1.1724
11074	A10	4165	54918	CMTM6	0.0691	1.1725
11064	A04	2832	84620	ST6GAL2	0.0691	1.1726
11044	H09	3033	51012	SLMO2	0.0691	1.1726
11076	E05	2973	10827	FAM114A2	0.0692	1.1726
11002	H03	9485	7134	TNNC1	0.0692	1.1728
11043	G09	7760	10627	MYL12A	0.0692	1.1728
11078	C05	5943	27336	HTATSFI	0.0692	1.1728
11086	F03	3510	1432	MAPK14	0.0692	1.1729
11022	G02	6074	80745	THUMPD2	0.0693	1.1730

51024	C10	55161	6018	RLF	0.0693	1.1730
11039	G08	2113	84532	ACSS1	0.0693	1.1731
11042	D02	1623	148203	ZNF738	0.0693	1.1731
51027	B01	55371	114798	SLITRK1	0.0693	1.1731
31024	C07	13771	NA	NA	0.0694	1.1732
31031	A07	14626	728233	PI4KAP1	0.0694	1.1732
11030	D10	3981	3181	HNRNPA2B1	0.0694	1.1733
51020	A02	56565	386672	KRTAP10-4	0.0695	1.1735
11016	C09	5291	5763	PTMS	0.0695	1.1735
11052	A10	394	11331	PHB2	0.0695	1.1735
11074	A07	4621	79036	C19orf50	0.0695	1.1737
11048	G05	5023	83546	RTBDN	0.0695	1.1737
11046	B08	9502	54734	RAB39	0.0696	1.1737
11054	D09	8849	9743	ARHGAP32	0.0696	1.1738
11076	E03	3742	8837	CFLAR	0.0696	1.1738
11009	F12	8885	2778	GNAS	0.0697	1.1740
31041	A01	9104	10999	SLC27A4	0.0697	1.1741
11053	B07	3392	51324	SPG21	0.0697	1.1741
11066	D08	7030	29952	DPP7	0.0697	1.1741
11061	H08	10205	91683	SYT12	0.0697	1.1741
11036	H08	4718	7041	TGFB111	0.0697	1.1742
31014	C04	11992	83483	PLVAP	0.0698	1.1742
31023	H06	13448	10809	STARD10	0.0698	1.1743
11007	A09	7376	51170	HSD17B11	0.0698	1.1744
51001	C11	52576	127124	ATP6V1G3	0.0698	1.1744
11067	G11	2649	1638	DCT	0.0698	1.1745
11001	A09	54	57228	SMAGP	0.0699	1.1745
11075	F07	2409	6138	RPL15	0.0699	1.1747
11064	A01	8787	3603	IL16	0.0699	1.1747
11080	E04	9877	56143	PCDHA5	0.0700	1.1748
31007	E06	11313	83666	PARP9	0.0700	1.1748
11038	A08	5978	2923	PDIA3	0.0700	1.1749
51031	C07	55244	NA	NA	0.0700	1.1749
11076	C03	4024	79441	HAUS3	0.0700	1.1749
31027	D08	15023	79152	FA2H	0.0700	1.1749
31025	F02	13512	284459	HKR1	0.0700	1.1750
11016	E11	7520	55863	TMEM126B	0.0700	1.1750
31040	G11	5901	9421	HAND1	0.0701	1.1751
51021	H02	56634	125488	TTC39C	0.0701	1.1751
51027	H10	56084	84000	TMPRSS13	0.0701	1.1751
51004	E01	53112	9230	RAB11B	0.0701	1.1751
11007	G08	6945	162394	SLFN5	0.0701	1.1752
51023	G08	54154	55698	RADIL	0.0701	1.1752
11015	B03	9025	3176	HNMT	0.0701	1.1753

11059	D06	5270	7867	MAPKAPK3	0.0702	1.1754
11057	A10	3932	83729	INHBE	0.0702	1.1754
11086	F04	6390	9555	H2AFY	0.0702	1.1755
11016	C08	3503	78988	MRP63	0.0702	1.1755
11044	B07	8527	1907	EDN2	0.0702	1.1755
51012	C09	53712	27244	SESN1	0.0703	1.1756
11079	F09	9461	91662	NLRP12	0.0703	1.1757
31044	H10	2027	5281	PIGF	0.0703	1.1758
11048	A08	600	25932	CLIC4	0.0703	1.1758
11005	A12	495	64754	SMYD3	0.0703	1.1758
11019	E09	6309	2950	GSTP1	0.0704	1.1759
51035	F03	53573	57818	G6PC2	0.0704	1.1759
11065	C08	9604	64428	NARFL	0.0704	1.1760
11060	E09	5496	10605	PAIP1	0.0704	1.1760
31026	F10	13855	26085	KLK13	0.0704	1.1760
11020	B07	3157	7314	UBB	0.0704	1.1760
11015	E04	9017	1288	COL4A6	0.0704	1.1761
11073	E03	4211	6273	S100A2	0.0704	1.1761
11035	D02	1998	54855	FAM46C	0.0705	1.1761
11024	F11	10162	84249	PSD2	0.0705	1.1761
31041	A11	5244	6181	RPLP2	0.0705	1.1762
11053	E10	3952	6449	SGTA	0.0705	1.1763
11010	G03	6207	57109	REXO4	0.0705	1.1763
51034	E01	53511	3439	IFNA1	0.0705	1.1763
11085	C09	9820	586	BCAT1	0.0706	1.1764
11064	D12	8730	752	FMNL1	0.0706	1.1765
11046	G06	2387	50999	TMED5	0.0706	1.1765
11048	E02	4633	84336	TMEM101	0.0707	1.1767
11064	B05	1028	55260	TMEM143	0.0707	1.1768
31006	H01	11147	26094	DCAF4	0.0707	1.1768
11053	D04	457	64115	C10orf54	0.0707	1.1769
11050	G09	2771	51110	LACTB2	0.0707	1.1769
11034	B11	2064	8935	SKAP2	0.0708	1.1769
51035	E06	53649	10107	TRIM10	0.0708	1.1770
31034	G03	14826	342538	NACA2	0.0708	1.1770
11002	D02	10029	27241	BBS9	0.0708	1.1770
51025	H03	56871	23271	CAMSAP1L1	0.0708	1.1771
11027	F02	3505	55651	NHP2	0.0708	1.1772
11003	F10	2773	8773	SNAP23	0.0708	1.1772
51005	C03	55037	53836	GPR87	0.0709	1.1772
11075	B02	4646	28511	NKIRAS2	0.0709	1.1773
11016	F11	7509	6451	SH3BGRL	0.0709	1.1773
11068	E12	9680	54462	FAM190B	0.0709	1.1773
51004	D08	55536	27341	RRP7A	0.0709	1.1774

31002	F07	10681	375056	MIA3	0.0709	1.1774
31020	A08	13117	55364	IMPACT	0.0710	1.1776
51017	F02	56027	10866	HCP5	0.0710	1.1776
11034	G11	3551	5719	PSMD13	0.0710	1.1776
11050	G04	593	79641	ROGDI	0.0710	1.1777
11076	B10	4809	8445	DYRK2	0.0711	1.1777
11073	D05	8911	79175	ZNF343	0.0711	1.1778
11069	F11	7802	3495	IGHD	0.0711	1.1778
51022	C12	56181	54910	SEMA4C	0.0711	1.1778
11018	A08	6995	51148	CERCAM	0.0711	1.1778
31004	H03	10459	125336	LOXHD1	0.0711	1.1780
11039	C04	9120	54904	WHSC1L1	0.0711	1.1780
11081	H04	5268	10650	SLMO1	0.0712	1.1780
51006	G09	53581	114795	TMEM132B	0.0712	1.1780
11028	D05	3221	11333	PDAP1	0.0712	1.1780
11021	D11	3794	3638	INSIG1	0.0712	1.1781
51025	G06	56930	23061	TBC1D9B	0.0712	1.1782
31021	H09	13056	55711	FAR2	0.0713	1.1783
11074	C12	872	64983	MRPL32	0.0713	1.1785
11045	A01	6367	10219	KLRG1	0.0714	1.1786
11045	H11	2951	11067	C10orf10	0.0714	1.1786
31044	C12	881	3115	HLA-DPB1	0.0714	1.1787
11046	G03	6242	7458	EIF4H	0.0714	1.1787
51022	B08	56661	1311	COMP	0.0714	1.1788
51022	C03	56173	7733	ZNF180	0.0715	1.1788
11060	G02	5804	6122	RPL3	0.0715	1.1789
31038	G06	14642	30000	TNPO2	0.0715	1.1789
11057	D03	1195	2770	GNAI1	0.0715	1.1790
31030	G06	14330	2898	GRIK2	0.0715	1.1790
11011	F03	5841	55846	ITFG2	0.0715	1.1790
11081	E06	2926	1112	FOXN3	0.0715	1.1791
11056	G01	3771	10218	ANGPTL7	0.0716	1.1791
11075	E09	5475	3606	IL18	0.0716	1.1792
11060	F05	10131	23596	OPN3	0.0716	1.1792
11068	H09	8174	6646	SOAT1	0.0716	1.1793
11056	F04	1734	81565	NDEL1	0.0716	1.1793
11056	C01	7125	2783	GNB2	0.0717	1.1795
11045	C08	184	11021	RAB35	0.0717	1.1795
11048	E12	2854	6715	SRD5A1	0.0717	1.1795
11076	G03	4576	23786	BCL2L13	0.0718	1.1799
51014	H02	55007	3570	IL6R	0.0718	1.1799
11009	E09	3093	79661	NEIL1	0.0719	1.1799
51022	C06	56172	5648	MASP1	0.0719	1.1800
31042	E12	5185	3107	HLA-C	0.0719	1.1801

51013	G03	53609	5818	PVRL1	0.0719	1.1801
11038	E03	6046	9322	TRIP10	0.0719	1.1802
31045	G08	3227	51293	CD320	0.0719	1.1802
31013	B11	12049	113115	FAM54A	0.0719	1.1802
11069	F05	10009	1536	CYBB	0.0720	1.1804
11084	G07	5668	9022	CLIC3	0.0720	1.1804
11065	C10	9825	57172	CAMK1G	0.0720	1.1804
31013	F05	11958	10170	DHRS9	0.0721	1.1805
11087	A06	449	6242	RTKN	0.0721	1.1805
11007	A02	1395	1264	CNN1	0.0721	1.1805
11040	E03	5005	84278	HIATL2	0.0721	1.1805
11020	G09	7567	51805	COQ3	0.0721	1.1807
11015	F03	7950	442582	STAG3L2	0.0722	1.1808
11053	H04	125	64063	PRSS22	0.0722	1.1808
51014	H09	52819	378884	NHLRC1	0.0722	1.1808
11063	D04	3928	83605	CCM2	0.0722	1.1808
11014	B07	6165	7064	THOP1	0.0722	1.1810
11019	A10	9154	339976	TRIML1	0.0723	1.1810
51021	E03	56689	252983	STXBP4	0.0723	1.1811
11007	A06	8274	58529	MYOZ1	0.0723	1.1812
11063	B12	5277	79971	WLS	0.0723	1.1812
11020	B03	5576	3422	IDI1	0.0723	1.1813
11019	H03	3383	65993	MRPS34	0.0724	1.1813
31018	C03	13022	4068	SH2D1A	0.0724	1.1814
11029	B08	4012	23521	RPL13A	0.0724	1.1814
11012	A04	3159	8568	RRP1	0.0724	1.1815
11069	G03	474	6713	SQLE	0.0724	1.1815
51011	E02	54546	11141	IL1RAPL1	0.0725	1.1816
11055	C06	556	80305	TRABD	0.0725	1.1817
11063	G03	9671	200576	PIKFYVE	0.0725	1.1817
11063	G11	6832	3661	IRF3	0.0725	1.1817
31004	D05	11025	7341	SUMO1	0.0726	1.1818
31007	G04	11229	3801	KIFC3	0.0726	1.1818
11059	D11	1079	4276	MICA	0.0726	1.1818
11002	G05	9690	207063	DHRSX	0.0726	1.1819
11005	G07	1450	135138	PACRG	0.0726	1.1819
51031	E11	55260	158234	RG9MTD3	0.0726	1.1820
11032	E11	1001	8832	CD84	0.0726	1.1820
11055	B01	2503	56934	CA10	0.0726	1.1821
11073	E11	4399	64792	RABL5	0.0727	1.1822
11025	C01	2361	79830	ZMYM1	0.0727	1.1822
51014	H07	52895	394263	MUC21	0.0727	1.1822
11076	A05	8918	1106	CHD2	0.0728	1.1824
11017	D09	6464	94107	TMEM203	0.0728	1.1825

11056	H04	4089	439	ASNA1	0.0728	1.1826
51011	A05	53834	64241	ABCG8	0.0728	1.1826
11073	B11	2364	122961	ISCA2	0.0729	1.1827
11069	G08	2403	4999	ORC2L	0.0729	1.1827
11026	C08	6757	51522	TMEM14C	0.0729	1.1828
31004	B12	10963	5638	PRRG1	0.0729	1.1829
11050	D03	9306	5191	PEX7	0.0730	1.1829
11087	E04	10008	1573	CYP2J2	0.0730	1.1829
51015	B08	52899	140825	NEURL2	0.0730	1.1831
51034	G11	53850	56656	OR2S2	0.0730	1.1831
11001	C07	219	51123	ZNF706	0.0730	1.1832
11011	C11	3882	8878	SQSTM1	0.0731	1.1832
11013	B06	3537	23759	PPIL2	0.0731	1.1832
31026	F08	13793	1215	CMA1	0.0731	1.1833
11018	C02	3325	51647	FAM96B	0.0731	1.1834
11045	C03	8767	22859	LPHN1	0.0732	1.1835
11077	F12	6190	4285	MIPEP	0.0732	1.1837
31023	G11	13618	1230	CCR1	0.0733	1.1837
11073	F03	4154	1611	DAP	0.0733	1.1838
11011	C09	781	4942	OAT	0.0734	1.1840
11055	H07	349	55266	TMEM19	0.0734	1.1840
31006	A03	11152	167681	PRSS35	0.0734	1.1842
51022	D08	56257	7220	TRPC1	0.0735	1.1844
51001	G10	52942	11337	GABARAP	0.0735	1.1844
31014	B11	11991	54503	ZDHHC13	0.0735	1.1844
11036	F05	849	1173	AP2M1	0.0735	1.1844
11018	A06	6538	79922	MRM1	0.0735	1.1845
11005	G09	8423	1154	CISH	0.0735	1.1845
11077	E02	3744	22978	NT5C2	0.0735	1.1845
11037	B11	6700	80032	ZNF556	0.0736	1.1847
51030	E03	56456	221262	CCDC162	0.0736	1.1847
51024	D05	56289	57584	ARHGAP21	0.0736	1.1848
11006	F01	5144	56270	WDR45L	0.0736	1.1848
51025	E03	56869	368	ABCC6	0.0736	1.1848
31044	F05	3184	10293	TRAIP	0.0737	1.1849
11039	E08	2080	57697	FANCM	0.0737	1.1850
31006	G02	11118	56157	TEX13A	0.0737	1.1851
11052	H06	5555	5828	PEX2	0.0738	1.1851
11067	D11	9721	1595	CYP51A1	0.0738	1.1852
11085	C06	3302	900	CCNG1	0.0738	1.1852
11012	A07	8961	4302	MLLT6	0.0738	1.1852
51014	G06	52932	374899	ZNF829	0.0738	1.1853
11043	F09	8786	203054	ADCK5	0.0738	1.1853
51014	F02	53470	163590	TOR1AIP2	0.0738	1.1853

11040	C01	6975	3338	DNAJC4	0.0738	1.1853
51027	C10	53206	8526	DGKE	0.0739	1.1854
11045	H05	2682	9076	CLDN1	0.0739	1.1855
11019	D05	7313	27314	RAB30	0.0739	1.1855
11069	G11	2338	8693	GALNT4	0.0739	1.1856
11027	C01	2263	90637	ZFAND2A	0.0739	1.1856
31008	G03	11456	6383	SDC2	0.0740	1.1858
11020	C07	5421	9982	FGFBP1	0.0740	1.1859
11011	F12	229	10376	TUBA1B	0.0740	1.1859
11076	D08	1915	91584	PLXNA4	0.0741	1.1861
31036	C09	11530	161142	FAM71D	0.0744	1.1869
31024	B10	13772	64860	ARMCX5	0.0744	1.1870
11013	G06	1188	1780	DYNC1I1	0.0744	1.1870
11077	F03	1402	9583	ENTPD4	0.0745	1.1870
11053	A07	5682	10478	SLC25A17	0.0745	1.1870
31032	B07	14692	51643	TMBIM4	0.0745	1.1872
11082	D06	8937	22837	COBLL1	0.0745	1.1872
51023	H02	55886	7098	TLR3	0.0747	1.1876
11010	G01	3435	2847	MCHR1	0.0747	1.1877
11067	F10	2438	9812	KIAA0141	0.0747	1.1877
11063	C09	1411	168391	GALNTL5	0.0747	1.1878
31031	A03	14641	23500	DAAM2	0.0748	1.1878
11060	B09	837	427	ASAH1	0.0748	1.1879
31011	A03	11363	9543	IGDCC3	0.0748	1.1880
11054	H02	4447	246329	STAC3	0.0748	1.1880
51024	C03	56326	79628	SH3TC2	0.0749	1.1881
51024	C01	56253	80169	C17orf68	0.0749	1.1881
31026	C12	13920	10369	CACNG2	0.0749	1.1882
11030	H10	7486	64801	ARV1	0.0749	1.1882
11082	C02	3463	64981	MRPL34	0.0749	1.1883
31042	A09	5706	900	CCNG1	0.0749	1.1883
11050	B03	538	958	CD40	0.0749	1.1883
51010	H10	52941	56624	ASAH2	0.0749	1.1883
11044	D08	4423	25915	NDUFAF3	0.0750	1.1884
11035	A03	2350	8577	TMEFF1	0.0750	1.1885
11016	H04	6294	11147	HHLA3	0.0750	1.1885
51027	D02	56331	64398	MPP5	0.0750	1.1886
11034	E01	8778	27125	AFF4	0.0750	1.1886
11089	B03	768	200014	CC2D1B	0.0750	1.1886
11081	G06	9522	1021	CDK6	0.0751	1.1887
11086	H11	2059	7504	XK	0.0751	1.1887
11059	D10	1058	60485	SAV1	0.0751	1.1888
11006	D07	6214	3612	IMPA1	0.0751	1.1888
11073	G02	8881	9321	TRIP11	0.0751	1.1888

31044	H02	4340	8717	TRADD	0.0751	1.1888
11018	B04	9094	80017	C14orf159	0.0751	1.1889
31017	C08	12893	5552	SRGN	0.0752	1.1890
11052	F03	5057	84304	NUDT22	0.0752	1.1891
11010	H06	2981	25970	SH2B1	0.0754	1.1896
11002	A02	9240	142913	CFLP1	0.0754	1.1896
11047	D06	8870	51151	SLC45A2	0.0755	1.1897
11062	A02	1066	317662	FAM149B1	0.0755	1.1898
31008	H07	11586	23492	CBX7	0.0755	1.1898
11066	B03	9962	9562	MINPP1	0.0755	1.1899
11075	G05	8977	65083	NOL6	0.0755	1.1899
51032	A07	55404	172	AFG3L1	0.0755	1.1900
51027	B08	55449	5745	PTH1R	0.0756	1.1901
11011	B04	4814	10226	PLIN3	0.0757	1.1903
51027	G06	55314	90379	DCAF15	0.0757	1.1903
11060	B01	7852	22944	KIN	0.0757	1.1903
11047	B03	5075	83695	C12orf32	0.0758	1.1906
11060	E06	6564	3880	KRT19	0.0758	1.1906
11052	A06	4829	3795	KHK	0.0758	1.1907
31036	G08	11337	119395	CALHM3	0.0758	1.1907
11048	F05	6472	22822	PHLDA1	0.0759	1.1909
31040	A07	9439	94033	FTMT	0.0759	1.1909
51004	E04	52600	151888	BTLA	0.0759	1.1909
51002	B02	54628	441108	C5orf56	0.0759	1.1909
51022	E10	56252	7544	ZFY	0.0759	1.1910
11015	H05	7769	138162	C9orf116	0.0759	1.1910
11081	E01	8891	2909	GRLF1	0.0760	1.1911
11044	D03	4825	7328	UBE2H	0.0760	1.1912
11029	C09	3715	10477	UBE2E3	0.0760	1.1912
31030	D04	14239	23293	SMG6	0.0760	1.1913
51012	C06	52834	145501	ISM2	0.0760	1.1913
51005	A09	54086	91694	LONRF1	0.0760	1.1913
11027	F07	7931	6647	SOD1	0.0760	1.1914
11067	E01	10111	23276	KLHL18	0.0760	1.1914
11021	C06	5571	23436	CELA3B	0.0761	1.1914
31035	D02	14983	25959	KANK2	0.0761	1.1914
31005	H10	10905	145482	PTGR2	0.0762	1.1917
11032	A08	6441	56647	BCCIP	0.0762	1.1917
11063	A08	4086	3696	ITGB8	0.0762	1.1918
11044	H06	179	57403	RAB22A	0.0762	1.1919
51020	B01	56403	54438	GFOD1	0.0763	1.1921
11022	A09	7195	9262	STK17B	0.0763	1.1922
11004	G07	1336	256710	GLIPR1L1	0.0764	1.1922
11085	A03	4954	3755	KCNG1	0.0764	1.1924

11046	B07	8503	9045	RPL14	0.0764	1.1924
11043	H07	3095	124220	ZG16B	0.0765	1.1925
31014	F12	12564	26519	TIMM10	0.0765	1.1926
11019	A07	6114	138065	RNF183	0.0765	1.1926
51015	E10	53028	5078	PAX4	0.0765	1.1927
31008	B06	11547	2878	GPX3	0.0766	1.1928
11010	F08	5150	79656	BEND5	0.0766	1.1929
51026	B09	56833	10308	ZNF267	0.0766	1.1929
11028	D04	5345	3481	IGF2	0.0766	1.1930
31042	B06	6651	25855	BRMS1	0.0767	1.1930
31023	D06	13434	91647	ATPAF2	0.0767	1.1931
11010	D11	588	8372	HYAL3	0.0767	1.1931
11063	D01	1233	9771	RAPGEF5	0.0767	1.1932
11018	E11	9077	55293	UEVLD	0.0767	1.1932
51023	D03	55966	83844	USP26	0.0767	1.1932
11062	C01	2277	126248	WDR88	0.0767	1.1932
31025	A08	14002	5149	PDE6H	0.0767	1.1932
11067	C03	2668	2444	FRK	0.0767	1.1933
31001	B05	10735	2395	FXN	0.0768	1.1933
31016	D06	12422	252969	NEIL2	0.0768	1.1934
11055	H05	6176	112936	VPS26B	0.0768	1.1934
51006	E06	54512	7711	ZNF155	0.0768	1.1935
31034	G05	14999	353116	RILPL1	0.0769	1.1937
31023	C09	13378	3939	LDHA	0.0769	1.1937
31040	C12	5214	84937	ZNRF1	0.0769	1.1937
51004	B12	55290	4082	MARCKS	0.0769	1.1937
51004	G03	53403	50614	GALNT9	0.0769	1.1938
11088	E12	1664	84340	GFM2	0.0769	1.1938
11053	D09	7022	9255	AIMP1	0.0769	1.1938
31008	D10	11555	55301	OLAH	0.0769	1.1939
11043	F10	8947	55500	ETNK1	0.0770	1.1939
11030	H08	9790	283080	C10orf126	0.0770	1.1939
51028	F05	55355	2589	GALNT1	0.0770	1.1939
11015	A09	9105	112812	FDX1L	0.0770	1.1940
11067	C05	1520	57669	EPB41L5	0.0770	1.1941
11036	A11	1490	200403	VWA3B	0.0771	1.1941
31026	C03	13952	7809	BSND	0.0771	1.1942
51002	A01	52613	4104	MAGEA5	0.0771	1.1943
31008	H04	11640	164633	CABP7	0.0772	1.1945
11048	C04	6230	10228	STX6	0.0772	1.1946
11061	C09	5343	10295	BCKDK	0.0772	1.1946
11018	G10	7958	4267	CD99	0.0772	1.1946
51027	F01	56817	197320	ZNF778	0.0773	1.1947
31001	B03	10491	152189	CMTM8	0.0773	1.1947

31003	G02	10657	83887	TTLL2	0.0773	1.1948
11062	F01	5337	91523	FAM113B	0.0773	1.1948
51031	A02	55521	80896	NPL	0.0773	1.1948
11014	E12	667	2305	FOXM1	0.0773	1.1948
31040	A02	213	6059	ABCE1	0.0774	1.1950
11058	E03	7117	55565	ZNF821	0.0774	1.1951
31014	G09	12016	4323	MMP14	0.0774	1.1952
11089	D04	515	10463	SLC30A9	0.0775	1.1953
11011	H04	4649	57721	METTL14	0.0775	1.1954
31040	B01	8190	92181	UBTD2	0.0775	1.1954
11017	C05	7392	57092	PCNP	0.0775	1.1954
11013	D06	6018	440	ASNS	0.0775	1.1955
31028	D08	14106	4337	MOCS1	0.0775	1.1955
11047	F11	1030	6398	SECTM1	0.0776	1.1955
11027	H11	1160	5367	PMCH	0.0776	1.1958
11076	C08	1891	10472	ZNF238	0.0777	1.1958
31027	B10	15044	388695	LYSMD1	0.0777	1.1958
31040	H07	10119	23347	SMCHD1	0.0777	1.1959
31045	H07	2489	25896	INTS7	0.0777	1.1959
51035	C01	53802	137886	UBXN2B	0.0777	1.1960
11060	G11	4465	10900	RUNDC3A	0.0777	1.1960
11028	D07	8848	65056	GPBP1	0.0777	1.1960
11060	D06	4023	26580	BSCL2	0.0778	1.1962
31043	A03	7680	84134	TOMM40L	0.0778	1.1962
51014	B02	55072	164045	HFM1	0.0779	1.1964
11052	H10	8645	55193	PBRM1	0.0779	1.1965
31009	A08	11430	4154	MBNL1	0.0779	1.1965
11078	F06	1334	79665	DHX40	0.0779	1.1965
11030	A09	7294	9075	CLDN2	0.0779	1.1966
11019	E03	6095	NA	NA	0.0780	1.1966
51034	C10	54098	26333	OR7A17	0.0780	1.1966
11038	A03	4988	81033	KCNH6	0.0781	1.1969
11055	B09	67	9124	PDLIM1	0.0781	1.1970
11044	C03	4554	27095	TRAPPC3	0.0781	1.1970
51005	E04	53804	54363	HAO1	0.0781	1.1971
11057	C12	10247	2898	GRIK2	0.0781	1.1971
11009	B03	3607	8459	TPST2	0.0782	1.1972
31004	G09	11055	126299	ZNF428	0.0782	1.1972
11076	E04	3738	7360	UGP2	0.0782	1.1973
11048	F06	5478	10412	NSA2	0.0782	1.1973
11065	A02	6006	9784	SNX17	0.0782	1.1974
11045	D12	9371	25911	DPCD	0.0783	1.1974
51013	G10	52925	2244	FGB	0.0783	1.1975
11064	E08	2189	2565	GABRG1	0.0783	1.1976

11076	F08	1456	5128	CDK17	0.0783	1.1977
11026	F05	8557	54432	YIPF1	0.0784	1.1978
11066	A05	2935	183	AGT	0.0784	1.1979
11056	A01	2351	63974	NEUROD6	0.0784	1.1979
11066	B05	3013	81539	SLC38A1	0.0784	1.1980
11066	A04	7246	54475	NLE1	0.0784	1.1980
11086	B03	8720	9360	PPIG	0.0785	1.1980
11059	H01	1774	80817	KIAA1712	0.0785	1.1981
11074	E04	5494	325	APCS	0.0785	1.1982
11056	H02	9569	100131755	ARMCX4	0.0785	1.1982
11019	F06	6302	23597	ACOT9	0.0786	1.1983
51023	G01	56091	55291	PPP6R3	0.0786	1.1983
31042	G11	5330	51292	GMPR2	0.0786	1.1984
11052	F08	6139	54557	SGTB	0.0787	1.1987
51033	F09	54870	388325	C17orf87	0.0787	1.1987
11062	A06	206	8907	AP1M1	0.0787	1.1987
51021	H10	55847	11226	GALNT6	0.0787	1.1988
11041	D01	5733	81853	TMEM14B	0.0788	1.1988
31044	D11	847	6758	SSX5	0.0788	1.1988
11025	A04	9934	3156	HMGCR	0.0788	1.1989
11038	G07	2323	201627	FAM116A	0.0788	1.1989
11053	G06	1338	83447	SLC25A31	0.0788	1.1989
51028	G10	55324	23650	TRIM29	0.0788	1.1989
51032	E03	55601	727956	SDHAP2	0.0788	1.1990
11085	F10	6677	113675	SDSL	0.0789	1.1992
31017	D09	12867	497661	C18orf32	0.0789	1.1992
31014	F05	11839	171017	ZNF384	0.0789	1.1993
11002	D04	10080	56259	CTNBL1	0.0789	1.1993
31008	B10	11579	3221	HOXC4	0.0789	1.1994
11060	F04	8133	127435	PODN	0.0790	1.1994
31014	G08	12296	64087	MCCC2	0.0790	1.1994
31013	D10	12091	84942	WDR73	0.0790	1.1995
31018	D06	13197	9204	ZMYM6	0.0790	1.1996
11018	D05	7220	64951	MRPS24	0.0790	1.1996
11061	B09	10150	152992	C4orf23	0.0790	1.1996
11007	E08	5448	1646	AKR1C2	0.0791	1.1997
31001	D05	10806	1442	CSH1	0.0792	1.2000
11021	D06	5969	11212	PROSC	0.0792	1.2000
51010	C04	54729	56129	PCDHB7	0.0792	1.2001
31045	D08	6758	28989	METTL11A	0.0793	1.2003
51026	C07	53140	9183	ZW10	0.0793	1.2003
11077	D02	2991	1838	DTNB	0.0793	1.2004
11070	B09	9667	8790	FPGT	0.0793	1.2004
31008	G09	11360	254013	C12orf72	0.0794	1.2005

11045	H01	266	23682	RAB38	0.0794	1.2005
51034	C05	53633	83881	MIXL1	0.0794	1.2005
11052	F07	5226	80003	PCNXL2	0.0794	1.2006
11047	B09	2176	55466	DNAJA4	0.0794	1.2007
11005	G01	2328	158521	FMR1NB	0.0794	1.2007
31005	D08	11079	139628	FOXR2	0.0794	1.2007
11019	G03	7192	112495	GTF3C6	0.0795	1.2008
51026	A12	53151	604	BCL6	0.0795	1.2008
51030	F04	55421	2630	GBAP1	0.0795	1.2008
11084	D01	6459	1392	CRH	0.0796	1.2010
31023	C06	13486	116143	WDR92	0.0796	1.2011
11034	D09	9596	945	CD33	0.0796	1.2011
51012	E05	53019	1262	CNGA4	0.0796	1.2011
11056	B12	8737	93594	WDR67	0.0796	1.2013
31045	F03	5099	11253	MAN1B1	0.0797	1.2013
11046	A09	1440	84066	C1orf49	0.0797	1.2013
51033	A03	55615	89838	FAM7A1	0.0797	1.2014
11053	F11	978	266740	MAGEA2B	0.0797	1.2015
31008	B12	11742	114898	C1QTNF2	0.0797	1.2015
11017	F02	6866	4192	MDK	0.0799	1.2019
31037	E09	14093	51626	DYNC2LI1	0.0799	1.2019
11032	H10	8517	200185	KRTCAP2	0.0800	1.2021
11027	E03	3670	54935	DUSP23	0.0800	1.2022
31004	C04	10546	9699	RIMS2	0.0800	1.2022
31040	F05	9474	135932	TMEM139	0.0800	1.2023
31001	D01	10733	125476	INO80C	0.0800	1.2023
11026	E03	3349	6632	SNRPD1	0.0800	1.2023
51012	D06	52877	6493	SIM2	0.0801	1.2024
11015	A02	8835	50854	C6orf48	0.0801	1.2025
31003	F03	10262	79871	RPAP2	0.0801	1.2026
51028	F01	56392	4883	NPR3	0.0801	1.2026
11047	B02	3623	9363	RAB33A	0.0801	1.2026
31017	H01	12507	138311	FAM69B	0.0802	1.2027
11048	F03	1214	386618	KCTD4	0.0802	1.2028
51024	G02	56344	26019	UPF2	0.0802	1.2028
31043	E01	5298	55716	LMBR1L	0.0802	1.2029
51009	H05	54244	8828	NRP2	0.0803	1.2030
51014	A01	54905	9971	NR1H4	0.0803	1.2030
31026	C07	13794	2678	GGT1	0.0803	1.2031
51024	H04	56074	8661	EIF3A	0.0803	1.2031
51010	A01	53108	10677	AVIL	0.0803	1.2032
51020	F12	56606	7779	SLC30A1	0.0803	1.2032
11039	B08	6907	211	ALAS1	0.0803	1.2032
11087	F08	6331	54908	CCDC99	0.0804	1.2033

11061	F01	1056	1360	CPB1	0.0804	1.2035
11025	D05	4485	10902	BRD8	0.0804	1.2035
11047	D01	3836	9218	VAPA	0.0805	1.2035
51008	D09	55160	2904	GRIN2B	0.0805	1.2035
51008	D03	54229	196883	ADCY4	0.0805	1.2036
31026	C11	13862	54429	TAS2R5	0.0805	1.2036
31006	F09	10819	203523	ZNF449	0.0805	1.2037
51020	G05	55803	266697	POM121L4P	0.0805	1.2037
31024	A12	13735	2869	GRK5	0.0805	1.2037
51001	C10	52577	84518	CNFN	0.0806	1.2038
51024	B06	56067	8648	NCOA1	0.0806	1.2039
51030	E10	53276	387521	TMEM189	0.0806	1.2039
11044	C04	24	378	ARF4	0.0806	1.2040
11020	E06	5792	965	CD58	0.0806	1.2041
11049	D05	4056	6811	STX5	0.0807	1.2041
31003	D12	10410	139065	SLITRK4	0.0807	1.2042
11019	C06	6870	79643	CHMP6	0.0807	1.2042
51022	F11	56324	9767	PHF16	0.0807	1.2042
11021	B07	9174	10781	ZNF266	0.0807	1.2042
11006	D08	1132	2823	GPM6A	0.0807	1.2043
11011	H02	6775	51776	ZAK	0.0807	1.2043
11052	B06	4437	57407	NMRAL1	0.0808	1.2044
11064	G09	7341	51004	COQ6	0.0808	1.2044
11069	H05	2441	146956	EME1	0.0808	1.2045
11047	E11	3741	5687	PSMA6	0.0808	1.2045
11087	H06	3311	29803	REPIN1	0.0808	1.2045
31027	A08	15040	3613	IMPA2	0.0808	1.2045
11052	E08	5219	10273	STUB1	0.0808	1.2046
11086	F07	7667	128637	TBC1D20	0.0809	1.2047
51017	E04	55987	285205	LOC285205	0.0809	1.2049
11046	E01	3856	7345	UCHL1	0.0809	1.2049
11006	F10	8370	2214	FCGR3A	0.0809	1.2049
31014	F01	12062	6605	SMARCE1	0.0809	1.2049
51011	C11	55124	57613	KIAA1467	0.0810	1.2049
11081	C06	9476	7177	TPSAB1	0.0810	1.2051
31010	B03	11419	143425	SYT9	0.0810	1.2052
11009	H08	5379	23410	SIRT3	0.0811	1.2053
11002	H06	10038	27294	DHDH	0.0811	1.2053
11007	H06	9182	64866	CDCP1	0.0811	1.2053
11054	A03	3891	4792	NFKBIA	0.0811	1.2054
11008	A10	49	11222	MRPL3	0.0811	1.2054
11065	E01	9860	817	CAMK2D	0.0812	1.2055
11048	B01	141	55374	TMCO6	0.0812	1.2056
51017	F10	55767	10214	SSX3	0.0812	1.2056

51009	E10	54068	285966	FAM115C	0.0813	1.2059
11057	C04	5080	79814	AGMAT	0.0813	1.2060
31020	G07	12862	10069	RWDD2B	0.0814	1.2062
11069	E01	9276	10665	C6orf10	0.0814	1.2062
11053	H11	1006	4103	MAGEA4	0.0814	1.2062
11076	C09	1863	10254	STAM2	0.0815	1.2063
31003	G10	10323	26013	L3MBTL	0.0815	1.2063
11011	E04	5324	10948	STARD3	0.0815	1.2064
51023	D02	55737	27241	BBS9	0.0815	1.2064
51024	H02	53920	2903	GRIN2A	0.0815	1.2064
11013	G05	5426	113878	DTX2	0.0815	1.2064
51005	F02	53674	7481	WNT11	0.0816	1.2067
11055	G05	6181	51665	ASB1	0.0817	1.2070
11070	H08	7131	10318	TNIP1	0.0817	1.2070
31003	D11	10592	7770	ZNF227	0.0817	1.2070
11052	F12	2187	134187	POU5F2	0.0817	1.2070
51001	H05	53420	339210	C17orf67	0.0818	1.2072
31028	G06	15065	10018	BCL2L11	0.0818	1.2073
11059	G06	1521	169966	FAM46D	0.0818	1.2073
51010	H08	53054	5321	PLA2G4A	0.0819	1.2074
11047	G06	9203	83876	MRO	0.0820	1.2077
11038	H05	7209	80221	ACSF2	0.0820	1.2077
31027	B06	13950	56603	CYP26B1	0.0820	1.2077
31003	A01	10589	85413	SLC22A16	0.0820	1.2079
11043	D12	6249	55190	NUDT11	0.0820	1.2079
51011	B01	54488	118461	C10orf71	0.0820	1.2079
11037	H05	9590	3493	IGHA1	0.0820	1.2079
11034	D11	6303	26762	HAVCR1	0.0821	1.2080
11073	A05	4185	6827	SUPT4H1	0.0821	1.2081
51013	G11	53727	5734	PTGER4	0.0822	1.2084
31039	C01	2517	5447	POR	0.0822	1.2084
51024	G09	55143	9044	BTAF1	0.0822	1.2085
11027	H08	2699	80184	CEP290	0.0822	1.2085
51009	H08	54210	1185	CLCN6	0.0822	1.2085
31008	G04	11469	138428	PTRH1	0.0823	1.2086
51023	G09	55898	1829	DSG2	0.0823	1.2087
51026	H02	55475	23149	FCHO1	0.0823	1.2087
51023	A07	55892	57835	SLC4A5	0.0823	1.2088
11068	E02	3048	5152	PDE9A	0.0824	1.2089
11030	B06	1094	286451	YIPF6	0.0824	1.2089
11032	B01	9095	7184	HSP90B1	0.0825	1.2091
31004	E10	10989	65108	MARCKSL1	0.0825	1.2092
11052	B04	1924	133383	C5orf35	0.0825	1.2092
11055	G08	3278	9798	KIAA0174	0.0825	1.2093

11019	E07	3433	10920	COPS8	0.0826	1.2094
11024	C03	10037	11201	POLI	0.0826	1.2096
11073	C03	3757	6285	S100B	0.0827	1.2096
11009	G06	603	29789	OLA1	0.0827	1.2097
31011	B12	12155	208	AKT2	0.0827	1.2098
31008	F09	11516	118881	COMTD1	0.0827	1.2099
51023	H05	53772	1180	CLCN1	0.0828	1.2099
31013	C12	11987	64149	C17orf75	0.0828	1.2099
11041	B10	3400	27018	NGFRAP1	0.0828	1.2100
11077	D08	813	51428	DDX41	0.0828	1.2100
31006	H05	10978	55500	ETNK1	0.0828	1.2100
51008	H10	53927	25885	POLR1A	0.0828	1.2100
11065	D11	5807	10486	CAP2	0.0829	1.2102
31044	H01	3660	11031	RAB31	0.0829	1.2102
11007	G09	6337	9522	SCAMP1	0.0829	1.2104
11019	F12	6600	57111	RAB25	0.0829	1.2104
31042	F10	9023	1388	ATF6B	0.0829	1.2104
31012	A11	12043	23594	ORC6L	0.0829	1.2104
11068	A07	2352	3738	KCNA3	0.0830	1.2105
51022	B04	56164	3270	HRC	0.0830	1.2106
31039	G08	1029	3217	HOXB7	0.0830	1.2106
11006	C02	8064	201931	TMEM192	0.0830	1.2107
11081	E02	4304	NA	NA	0.0831	1.2109
31001	B07	10302	9702	CEP57	0.0831	1.2109
51022	G07	56815	155054	ZNF425	0.0831	1.2110
51005	E07	53983	64090	GAL3ST2	0.0832	1.2111
31033	E09	14997	8028	MLLT10	0.0833	1.2113
31026	C10	13905	63036	CELA2A	0.0833	1.2114
11016	A07	6661	151534	LOC151534	0.0833	1.2115
11057	E11	590	55007	FAM118A	0.0833	1.2115
11032	E04	6241	648	BMI1	0.0834	1.2116
51008	D08	55169	25998	IBTK	0.0834	1.2116
11026	C01	1257	135154	C6orf57	0.0834	1.2116
51012	D07	53841	124872	B4GALNT2	0.0834	1.2119
31043	B07	6210	1813	DRD2	0.0835	1.2120
51033	B03	55369	554226	ANKRD30BL	0.0835	1.2120
31020	G04	12939	79568	C2orf47	0.0835	1.2121
31019	D05	12916	29992	PILRA	0.0835	1.2121
31033	F03	14729	10762	NUP50	0.0836	1.2122
51025	E02	53355	56163	RNF17	0.0836	1.2122
11067	C07	6712	6675	UAP1	0.0836	1.2122
51034	C11	53643	9501	RPH3AL	0.0836	1.2123
11006	C06	8273	79843	FAM124B	0.0836	1.2123
11014	G04	86	114928	GPRASP2	0.0836	1.2123

11076	E09	1294	64396	GMCLIL	0.0837	1.2126
11069	G05	5066	9531	BAG3	0.0838	1.2128
31003	G05	10306	2729	GCLC	0.0838	1.2128
51035	F01	54576	911	CD1C	0.0838	1.2129
31009	H11	11577	51365	PLA1A	0.0839	1.2130
51034	E06	54163	7140	TNNT3	0.0839	1.2131
31002	A02	10250	5093	PCBP1	0.0839	1.2131
11034	C08	975	6838	SURF6	0.0840	1.2133
31044	G04	3326	8522	GAS7	0.0840	1.2133
51022	D04	56188	6252	RTN1	0.0840	1.2134
11052	A03	3692	27343	POLL	0.0840	1.2134
51022	B06	56185	9844	ELMO1	0.0841	1.2136
11014	A05	4277	50853	VILL	0.0841	1.2136
31023	H02	13737	3514	IGKC	0.0841	1.2137
11075	E02	2063	83988	NCALD	0.0841	1.2137
11038	G10	2114	129563	DIS3L2	0.0841	1.2138
31017	E04	12518	126321	C19orf28	0.0842	1.2139
11003	F07	6205	57095	C1orf128	0.0842	1.2139
31044	C10	8822	84896	ATAD1	0.0842	1.2139
11034	H10	2271	114299	PALM2	0.0842	1.2140
51008	E06	54295	27127	SMC1B	0.0842	1.2140
11051	F02	3642	8775	NAPA	0.0843	1.2142
11061	D11	9871	10880	ACTL7B	0.0843	1.2144
11065	A11	2031	3169	FOXA1	0.0844	1.2145
11032	H08	8257	89822	KCNK17	0.0844	1.2146
11073	H04	4285	80763	C12orf39	0.0844	1.2146
51026	C12	53269	80760	ITIH5	0.0844	1.2146
11054	E06	7423	8644	AKR1C3	0.0844	1.2146
11049	E12	2611	83401	ELOVL3	0.0845	1.2148
11055	H10	9296	23632	CA14	0.0845	1.2148
31022	D10	13751	4063	LY9	0.0845	1.2148
31020	F10	12965	9507	ADAMTS4	0.0845	1.2148
51028	E06	55666	4148	MATN3	0.0845	1.2149
11026	D06	8131	6843	VAMP1	0.0846	1.2149
51033	G11	54376	80112	WBSCR23	0.0846	1.2151
31033	G10	14833	1470	CST2	0.0846	1.2151
11068	G05	8940	84976	DISP1	0.0847	1.2153
11027	G10	680	6883	TAF12	0.0847	1.2153
31023	E11	13590	259	AMBP	0.0847	1.2154
11047	G02	995	7170	TPM3	0.0847	1.2154
51010	B12	53768	158405	KIAA1958	0.0847	1.2155
11021	C07	3593	10549	PRDX4	0.0848	1.2155
11043	F03	6356	8557	TCAP	0.0848	1.2156
11029	A06	6781	54981	C9orf95	0.0848	1.2156

11077	F09	1321	148254	ZNF555	0.0849	1.2159
51010	F04	52716	84215	ZNF541	0.0849	1.2159
11073	A11	1761	143379	C10orf82	0.0849	1.2160
31030	D09	14326	25903	OLFML2B	0.0849	1.2160
11068	F05	450	51310	SLC22A17	0.0850	1.2161
11086	H08	6298	55002	TMCO3	0.0850	1.2162
11069	E10	7105	10636	RGS14	0.0850	1.2163
11073	A01	8883	51507	C20orf43	0.0850	1.2163
31005	B08	11122	91522	COL23A1	0.0851	1.2163
31045	F06	9367	221468	TMEM217	0.0851	1.2164
11069	B08	2655	23411	SIRT1	0.0851	1.2165
11046	C07	3921	10972	TMED10	0.0851	1.2165
11052	G02	3639	23462	HEY1	0.0852	1.2167
11047	G03	1201	140838	NANP	0.0852	1.2168
11058	D08	4278	80270	HSD3B7	0.0852	1.2168
51024	G05	55217	11073	TOPBP1	0.0852	1.2168
31031	A11	14582	10331	B3GNT3	0.0852	1.2169
11035	F10	3723	9266	CYTH2	0.0853	1.2171
11015	A01	5616	6588	SLN	0.0853	1.2171
51030	A11	56470	254240	BPIL2	0.0854	1.2172
11064	G10	7678	634	CEACAM1	0.0854	1.2174
11057	A09	4570	27122	DKK3	0.0855	1.2175
31034	C06	14986	50717	DCAF8	0.0855	1.2175
11030	B04	6748	9982	FGFBP1	0.0856	1.2179
11075	F02	3936	29105	C16orf80	0.0856	1.2179
51013	G04	54550	203062	TSNARE1	0.0856	1.2179
11050	B08	161	54708	MARCH5	0.0857	1.2180
11060	A11	8655	7092	TLL1	0.0857	1.2181
11047	A03	4324	55116	TMEM39B	0.0857	1.2181
11030	G06	4702	6191	RPS4X	0.0857	1.2181
11086	B05	6199	80142	PTGES2	0.0857	1.2182
11076	C12	3852	10963	STIP1	0.0858	1.2183
11018	B09	3763	55004	C11orf59	0.0858	1.2184
11014	D08	4035	4174	MCM5	0.0858	1.2185
11021	F06	3557	481	ATP1B1	0.0859	1.2187
11040	A05	8925	27348	TOR1B	0.0859	1.2187
51005	F03	54492	2848	GPR25	0.0860	1.2191
51005	A08	54311	254173	TTLL10	0.0861	1.2192
51004	E09	53842	6386	SDCBP	0.0861	1.2193
11037	A11	6862	53838	C11orf24	0.0861	1.2194
11086	F09	1637	25984	KRT23	0.0861	1.2194
51015	B02	52806	139422	MAGEB10	0.0862	1.2194
51002	E02	54470	130355	C2orf76	0.0862	1.2196
11012	F07	248	55716	LMBR1L	0.0862	1.2196

11053	A06	1206	51534	VTA1	0.0862	1.2196
11035	B05	2452	1116	CHI3L1	0.0862	1.2197
11043	F12	6549	80218	NAA50	0.0862	1.2197
11064	F03	1322	27098	CLUL1	0.0863	1.2197
51035	B06	55000	441476	C9orf173	0.0863	1.2197
51002	E06	55753	8352	HIST1H3C	0.0863	1.2198
51004	C10	56534	653437	AQP12B	0.0863	1.2198
11050	C02	6258	91523	FAM113B	0.0863	1.2198
11027	F06	7926	51155	HN1	0.0863	1.2199
11073	B01	4609	79086	C19orf42	0.0863	1.2200
11047	F12	2727	29090	C18orf55	0.0863	1.2200
51002	A10	52655	5355	PLP2	0.0864	1.2200
11026	G09	791	84707	BEX2	0.0865	1.2203
11063	E05	8454	161198	CLEC14A	0.0865	1.2204
11045	H08	131	1906	EDN1	0.0865	1.2205
11039	B01	1931	79807	GSTCD	0.0866	1.2205
31007	G01	10877	348327	ZNF530	0.0866	1.2206
11011	E07	7523	3646	EIF3E	0.0866	1.2206
11069	D05	5048	22803	XRN2	0.0866	1.2207
11022	D09	7507	3185	HNRNPF	0.0866	1.2208
31016	E07	12809	57157	PHTF2	0.0866	1.2208
31037	F05	14060	10648	SCGB1D1	0.0866	1.2208
11051	D12	2615	415117	STX19	0.0867	1.2209
51021	E07	56638	26147	PHF19	0.0867	1.2210
11044	E04	249	9519	TBPL1	0.0868	1.2212
51014	E08	52695	89832	CHRFAM7A	0.0868	1.2213
51034	D06	55083	401260	FLJ41649	0.0868	1.2214
31010	C01	11810	9942	XYLB	0.0869	1.2214
31003	C11	10428	256309	CCDC110	0.0869	1.2215
31037	F03	12642	23263	MCF2L	0.0869	1.2215
11021	F09	3220	8704	B4GALT2	0.0870	1.2217
31003	G04	10700	23305	ACSL6	0.0870	1.2218
51025	E05	53319	63925	ZNF335	0.0870	1.2219
51030	A04	56937	284611	FAM102B	0.0870	1.2219
11045	C05	6443	55173	MRPS10	0.0870	1.2219
11034	B07	6033	57488	ESYT2	0.0871	1.2220
11077	F02	4443	440	ASNS	0.0871	1.2220
11025	A08	9615	10808	HSPH1	0.0871	1.2221
31003	F11	10621	54413	NLGN3	0.0871	1.2221
51002	A09	54860	388722	C1orf53	0.0871	1.2221
11054	G08	3066	25979	DHRS7B	0.0871	1.2222
31021	F01	13072	6402	SELL	0.0872	1.2222
11052	D06	4108	10166	SLC25A15	0.0872	1.2222
51031	B02	56153	339366	ADAMTSL5	0.0872	1.2223

11026	B03	7466	79145	CHCHD7	0.0872	1.2224
11013	A12	4741	9128	PRPF4	0.0872	1.2225
31007	C06	10841	130271	PLEKHH2	0.0872	1.2225
31018	E10	13110	55601	DDX60	0.0873	1.2226
11047	G11	2661	129531	MITD1	0.0873	1.2227
51023	H04	55894	64783	RBM15	0.0873	1.2228
51023	D06	56268	54538	ROBO4	0.0874	1.2228
51022	G01	55729	3034	HAL	0.0874	1.2229
11064	C08	1673	84929	FIBCD1	0.0874	1.2230
11019	C02	3753	79078	C1orf50	0.0875	1.2231
31045	A02	1782	56852	RAD18	0.0875	1.2231
51023	G04	56699	7375	USP4	0.0875	1.2231
11015	F11	8968	4771	NF2	0.0875	1.2232
11044	D02	4362	84270	C9orf89	0.0876	1.2234
51026	A07	55871	136051	ZNF786	0.0876	1.2234
11086	A02	1500	79906	MORN1	0.0876	1.2235
51016	C09	56700	728461	CSAG2	0.0876	1.2236
11057	D05	1899	85315	PAQR8	0.0876	1.2236
31013	A11	11856	63939	C20orf177	0.0876	1.2236
51030	A01	56757	NA	NA	0.0876	1.2236
51026	E07	56868	8618	CADPS	0.0877	1.2237
11014	C07	6498	81887	LAS1L	0.0877	1.2238
11027	C08	9784	441024	MTHFD2L	0.0877	1.2239
11067	D02	7320	410	ARSA	0.0878	1.2240
11069	D02	10238	57706	DENND1A	0.0878	1.2241
51009	F07	54114	114659	LRR37B	0.0878	1.2241
11034	A06	4684	2130	EWSR1	0.0879	1.2243
11046	H04	2637	3120	HLA-DQB2	0.0879	1.2244
51033	H11	53991	83899	KRTAP9-2	0.0879	1.2244
51025	H01	56342	55193	PBRM1	0.0880	1.2245
11010	G09	6730	10053	AP1M2	0.0880	1.2245
31039	C07	8791	54461	FBXW5	0.0880	1.2245
51034	D10	54213	259289	TAS2R43	0.0880	1.2246
11050	D11	2688	5810	RAD1	0.0880	1.2246
11081	F02	973	389903	CSAG3	0.0880	1.2246
11048	C11	4445	3604	TNFRSF9	0.0880	1.2246
51028	G04	56398	9584	RBM39	0.0881	1.2248
31024	A06	13631	28396	IGHV4-31	0.0881	1.2248
11004	A05	8055	84645	C22orf23	0.0881	1.2249
11076	B04	4026	5546	PRCC	0.0881	1.2249
51035	F02	53922	11186	RASSF1	0.0881	1.2249
31008	B02	11361	29078	NDUFAF4	0.0881	1.2250
51005	C08	55654	129607	CMPK2	0.0881	1.2250
11054	F06	6983	5308	PITX2	0.0882	1.2252

11086	D04	4380	4109	MAGEA10	0.0882	1.2252
11015	D02	7428	10302	SNAPC5	0.0882	1.2253
11035	F02	3402	51174	TUBD1	0.0883	1.2254
11011	F08	2770	11153	FICD	0.0883	1.2254
11059	G08	6497	79888	LPCAT1	0.0883	1.2255
11068	B01	7809	55640	FLVCR2	0.0883	1.2256
51027	D04	53214	149233	IL23R	0.0884	1.2256
11046	G09	2088	9227	LRAT	0.0884	1.2256
51034	D08	53713	29035	C16orf72	0.0884	1.2257
11053	D10	7347	64773	FAM113A	0.0884	1.2257
51023	F12	54034	22872	SEC31A	0.0884	1.2257
31008	F03	11745	83719	YPEL3	0.0885	1.2260
11018	B05	3740	638	BIK	0.0885	1.2260
11017	G09	7552	58505	OSTC	0.0885	1.2262
11048	C01	3927	79447	C16orf53	0.0886	1.2263
11069	A03	8487	1102	RCBTB2	0.0886	1.2264
51009	D04	53050	170689	ADAMTS15	0.0886	1.2264
31020	A11	13115	350	APOH	0.0887	1.2265
11045	B01	2812	55816	DOK5	0.0887	1.2265
11047	D10	3023	6945	MLX	0.0887	1.2266
11011	G04	1901	57515	SERINC1	0.0888	1.2269
51022	B05	55922	59344	ALOXE3	0.0889	1.2273
11043	D04	9073	38	ACAT1	0.0890	1.2273
51012	A07	53938	285267	ZNF619	0.0890	1.2273
11035	F12	821	23059	CLUAP1	0.0890	1.2273
11030	A08	3667	79178	THTPA	0.0890	1.2273
11052	B01	8799	3980	LIG3	0.0890	1.2274
11008	E01	440	81890	QTRT1	0.0890	1.2276
11063	A10	8958	2194	FASN	0.0891	1.2276
11057	F11	4084	10455	PECI	0.0891	1.2276
11054	C02	2229	143425	SYT9	0.0891	1.2277
11060	H01	4820	9776	ATG13	0.0892	1.2279
11043	F04	5518	51506	UFC1	0.0892	1.2280
51028	H06	53378	25854	FAM149A	0.0893	1.2283
11066	C10	6428	9512	PMPCB	0.0893	1.2284
31004	F05	11016	522	ATP5J	0.0894	1.2285
51027	A07	53193	9441	MED26	0.0894	1.2285
11039	B10	6793	57176	VAR52	0.0894	1.2286
51023	G07	53852	152831	KLB	0.0895	1.2289
51018	A09	55775	6192	RPS4Y1	0.0895	1.2290
11011	F06	5839	7277	TUBA4A	0.0895	1.2290
31032	G08	14785	203523	ZNF449	0.0896	1.2291
11024	F06	9682	7812	CSDE1	0.0896	1.2291
11073	E02	4589	1164	CKS2	0.0896	1.2292

11002	F06	5592	2764	GMFB	0.0897	1.2293
51027	A02	55652	54845	ESRP1	0.0897	1.2293
31041	G01	7175	112464	PRKCDBP	0.0897	1.2296
51001	F05	52639	5148	PDE6G	0.0898	1.2296
51032	E11	56407	399761	BMS1P5	0.0899	1.2299
51022	C04	55918	26024	PTCD1	0.0899	1.2301
11067	C04	9922	51449	PCYOX1	0.0899	1.2301
31027	B05	14024	4314	MMP3	0.0899	1.2301
31034	B12	14926	9229	DLGAP1	0.0899	1.2301
11011	B12	7496	1937	EEF1G	0.0900	1.2302
11032	F12	9323	942	CD86	0.0900	1.2304
31015	E07	12527	84522	JAGN1	0.0900	1.2304
11069	H04	6921	54552	GNL3L	0.0901	1.2304
11008	D08	2925	57447	NDRG2	0.0901	1.2305
31012	C08	12088	134145	FAM173B	0.0901	1.2305
51027	A05	55653	57610	RANBP10	0.0901	1.2306
31020	G02	13295	7274	TTPA	0.0901	1.2306
31020	E10	13214	4060	LUM	0.0901	1.2307
51034	H07	54482	84871	AGBL4	0.0902	1.2307
51033	B08	53551	6354	CCL7	0.0902	1.2308
11038	A05	9631	79819	WDR78	0.0902	1.2308
11067	B05	6431	51068	NMD3	0.0902	1.2308
11055	E01	409	113828	FAM83F	0.0902	1.2309
51025	E12	56846	9180	OSMR	0.0902	1.2310
11017	A01	5292	84967	LSM10	0.0902	1.2310
11011	A05	2894	23208	SYT11	0.0903	1.2311
31004	B07	10817	54893	MTMR10	0.0903	1.2311
11010	B04	268	1491	CTH	0.0903	1.2311
11075	D02	1093	64963	MRPS11	0.0903	1.2311
51021	F03	55850	148198	ZNF98	0.0903	1.2312
11081	E10	2250	NA	NA	0.0903	1.2312
11069	B10	4882	2053	EPHX2	0.0904	1.2313
11001	C08	2859	386759	MGC9913	0.0905	1.2317
11008	D07	7303	51451	LCMT1	0.0905	1.2318
31005	E07	11023	129138	ANKRD54	0.0906	1.2318
11051	A04	4476	1892	ECHS1	0.0906	1.2319
51024	F03	55144	2066	ERBB4	0.0906	1.2320
31010	D08	11582	6780	STAU1	0.0908	1.2327
11002	A09	8816	9946	CRYZL1	0.0909	1.2329
31009	C02	11807	50863	NTM	0.0909	1.2329
11069	D04	8519	3026	HABP2	0.0910	1.2331
11041	F05	9075	4867	NPHP1	0.0910	1.2331
11085	H05	7728	4350	MPG	0.0911	1.2334
31023	G08	13753	285367	RPUSD3	0.0911	1.2334

31032	D06	14492	23339	VPS39	0.0911	1.2335
11052	A05	4473	293	SLC25A6	0.0912	1.2336
11013	D04	5991	498	ATP5A1	0.0912	1.2337
11030	C07	3406	28992	MACROD1	0.0912	1.2338
11068	D03	7182	112885	PHF21B	0.0912	1.2338
11008	G03	3257	26073	POLDIP2	0.0912	1.2338
11027	D07	7970	100132341	KIAA0664L3	0.0913	1.2338
31028	D10	14148	10395	DLC1	0.0913	1.2339
31040	C04	9227	92346	C1orf105	0.0913	1.2340
51028	C07	53271	6603	SMARCD2	0.0913	1.2341
51032	D11	55546	284018	C17orf58	0.0913	1.2341
31015	G06	12587	154807	VKORC1L1	0.0914	1.2341
11018	A05	7911	4507	MTAP	0.0914	1.2341
11057	A01	2223	79740	ZBBX	0.0914	1.2343
31018	F11	13301	204010	RPSAP52	0.0915	1.2344
11010	B02	3091	79876	UBA5	0.0915	1.2345
51016	F12	55747	8343	HIST1H2BF	0.0916	1.2347
11079	F11	1554	23424	TDRD7	0.0917	1.2350
11010	E03	619	55860	ACTR10	0.0917	1.2350
51016	A06	56429	440356	LOC440356	0.0917	1.2351
51034	G03	53777	8822	FGF17	0.0918	1.2352
51016	C06	55970	118430	MUCL1	0.0918	1.2353
11088	C11	518	55181	C17orf71	0.0918	1.2354
11032	B11	6552	4107	MAGEA8	0.0918	1.2354
11057	D09	4993	84816	RTN4IP1	0.0918	1.2355
11045	C12	9874	1805	DPT	0.0918	1.2355
11044	B10	2853	90390	MED30	0.0919	1.2356
11042	A03	5481	6291	SAA4	0.0919	1.2357
31002	D12	10706	5562	PRKAA1	0.0920	1.2358
11011	D12	6055	10382	TUBB4	0.0920	1.2359
11077	C08	3746	23177	CEP68	0.0921	1.2362
11014	B08	3142	7064	THOP1	0.0922	1.2365
11039	G02	1319	5583	PRKCH	0.0922	1.2365
51013	B01	53008	908	CCT6A	0.0922	1.2366
11035	E08	1538	10678	B3GNT2	0.0922	1.2367
31026	D04	13789	5047	PAEP	0.0923	1.2367
31005	H06	10911	54898	ELOVL2	0.0923	1.2368
11011	D09	6855	6871	TADA2A	0.0924	1.2370
51033	C07	53693	152225	LOC152225	0.0924	1.2370
31028	F09	14087	431707	LHX8	0.0924	1.2372
11018	B02	6297	55284	UBE2W	0.0925	1.2373
11063	G04	4408	79171	RBM42	0.0925	1.2375
11048	B02	2254	144321	GLIPR1L2	0.0926	1.2376
11014	E08	4906	51433	ANAPC5	0.0926	1.2378

11065	F04	7638	3500	IGHG1	0.0927	1.2380
51008	B05	53714	64328	XPO4	0.0928	1.2383
31044	A05	3616	10609	SC65	0.0928	1.2383
31015	A12	12444	159090	FAM122B	0.0928	1.2383
51010	C01	54339	7581	ZNF33A	0.0928	1.2383
11044	F01	6591	92806	CENPBD1	0.0928	1.2383
11067	A05	1747	202500	TCTE1	0.0929	1.2384
31018	G03	13003	117157	SH2D1B	0.0929	1.2384
11085	F12	852	54765	TRIM44	0.0930	1.2387
31021	H07	13257	55843	ARHGAP15	0.0930	1.2388
11041	C06	5789	9167	COX7A2L	0.0930	1.2388
51003	H02	54130	1421	CRYGD	0.0930	1.2388
11029	A11	3295	5690	PSMB2	0.0931	1.2389
11055	B05	7755	1891	ECH1	0.0931	1.2391
51025	H02	53283	80036	TRPM3	0.0931	1.2392
31023	C08	13468	112937	GLB1L3	0.0932	1.2395
51014	C06	52762	285848	PNPLA1	0.0933	1.2397
31030	C01	14339	23435	TARDBP	0.0933	1.2397
51008	E09	56873	2074	ERCC6	0.0933	1.2398
51032	A10	55501	83699	SH3BGRL2	0.0934	1.2398
51033	D04	55258	NA	NA	0.0934	1.2399
11056	C09	2216	169166	SNX31	0.0934	1.2399
11014	A07	8777	63892	THADA	0.0935	1.2402
31003	C10	10729	81627	C1orf25	0.0935	1.2402
11030	G02	9835	10804	GJB6	0.0936	1.2404
11029	A01	706	56521	DNAJC12	0.0936	1.2405
31015	C08	12727	10959	TMED2	0.0936	1.2406
11076	A09	1873	6505	SLC1A1	0.0937	1.2407
31014	B02	11838	162972	ZNF550	0.0937	1.2407
11019	B06	7081	29946	SERTAD3	0.0937	1.2407
11035	B07	8346	5890	RAD51L1	0.0937	1.2409
11048	E09	6468	85465	EPT1	0.0937	1.2409
11050	F11	4099	7139	TNNT2	0.0938	1.2410
31037	H04	13118	11340	EXOSC8	0.0938	1.2410
11034	H11	6397	8634	RTCD1	0.0938	1.2411
11028	A06	3014	112487	C14orf126	0.0938	1.2411
11085	A02	2857	682	BSG	0.0939	1.2414
11057	H03	4588	79770	TXNDC15	0.0939	1.2414
31004	F09	10974	6009	RHEB	0.0940	1.2417
11034	C09	1391	128153	SPATA17	0.0940	1.2417
11050	G01	4991	25799	ZNF324	0.0941	1.2419
11019	B05	6426	4634	MYL3	0.0941	1.2419
31044	C04	9187	51111	SUV420H1	0.0941	1.2419
11019	H05	7982	3251	HPRT1	0.0941	1.2420

11024	D05	10191	90134	KCNH7	0.0941	1.2420
11011	H07	6185	29760	BLNK	0.0942	1.2421
51033	F12	54588	80742	PRR3	0.0942	1.2421
51032	H05	56452	344901	OSTN	0.0942	1.2422
31023	C10	13374	285367	RPUSD3	0.0942	1.2423
51016	A12	55981	151009	LOC151009	0.0942	1.2423
51009	B12	55118	56107	PCDHGA9	0.0942	1.2424
11067	B09	10174	53834	FGFRL1	0.0943	1.2426
11047	B07	4961	6450	SH3BGR	0.0944	1.2427
11061	C02	990	135	ADORA2A	0.0944	1.2427
31017	A07	12547	117246	FTSJ3	0.0944	1.2427
51027	F10	53232	51434	ANAPC7	0.0944	1.2429
11041	B01	1907	400120	C13orf36	0.0944	1.2429
51026	B04	55525	5145	PDE6A	0.0945	1.2430
31007	E11	11524	22808	MRAS	0.0945	1.2430
31003	C01	10499	257019	FRMD3	0.0945	1.2430
31015	H09	12577	54994	C20orf11	0.0945	1.2431
51002	B12	52753	84536	C21orf67	0.0945	1.2431
11035	C06	9262	55236	UBA6	0.0946	1.2434
11014	B01	2931	23265	EXOC7	0.0947	1.2437
11047	H09	7048	326625	MMAB	0.0947	1.2438
11040	D03	8982	7551	ZNF3	0.0947	1.2438
11010	B05	6822	5937	RBMS1	0.0948	1.2439
11025	G05	1938	868	CBLB	0.0948	1.2440
11044	D06	493	2495	FTH1	0.0949	1.2442
11032	B12	7015	29071	C1GALT1C1	0.0949	1.2443
11014	F12	1027	4753	NELL2	0.0950	1.2444
31026	G02	13798	4975	OMP	0.0950	1.2446
51021	E09	56156	80311	KLHL15	0.0950	1.2446
11039	D09	7343	11054	OGFR	0.0951	1.2448
31003	C06	10353	170062	FAM47B	0.0951	1.2449
11059	D09	1349	204219	LASS3	0.0952	1.2451
11066	B08	7085	79663	HSPBAP1	0.0952	1.2451
11011	G10	5866	10227	MFSD10	0.0952	1.2451
11020	A06	7329	220164	DOK6	0.0952	1.2452
51004	H03	52628	112399	EGLN3	0.0952	1.2452
11052	D02	1736	147463	ANKRD29	0.0953	1.2453
31023	G09	13654	302	ANXA2	0.0954	1.2456
11042	D07	8463	151647	FAM19A4	0.0954	1.2456
11011	D10	3583	1352	COX10	0.0954	1.2457
31004	D09	11032	2495	FTH1	0.0955	1.2461
11043	D01	1504	159162	RBMV2FP	0.0956	1.2461
11034	G04	6366	51438	MAGEC2	0.0956	1.2462
11038	D07	4911	25839	COG4	0.0957	1.2464

51014	A12	52733	84618	NT5C1A	0.0957	1.2466
31003	B11	10641	23341	DNAJC16	0.0958	1.2467
11011	E11	431	129868	TRIM43	0.0958	1.2467
51035	F04	53980	2830	GPR6	0.0958	1.2467
31030	H02	14354	29068	ZBTB44	0.0958	1.2467
11011	B02	3994	50859	SPOCK3	0.0959	1.2471
11060	G03	8506	11318	GPR182	0.0959	1.2471
11019	A06	7537	64769	MEAF6	0.0959	1.2472
11064	C07	7676	2674	GFRA1	0.0960	1.2474
51001	A05	53171	389125	MUSTN1	0.0960	1.2474
51018	B11	56410	389799	C9orf171	0.0960	1.2474
11004	C01	5753	55974	RAG1AP1	0.0961	1.2476
11044	A02	501	9939	RBM8A	0.0961	1.2476
11025	H06	2449	23550	PSD4	0.0961	1.2476
11081	C07	3884	NA	NA	0.0961	1.2477
31021	A09	13024	9314	KLF4	0.0961	1.2477
31024	H02	13661	64225	ATL2	0.0961	1.2477
11079	C08	8450	58484	NLRC4	0.0961	1.2478
31008	E01	11378	389123	IQCF2	0.0962	1.2479
11057	B02	2348	5567	PRKACB	0.0963	1.2482
51018	A12	53335	7627	ZNF75A	0.0963	1.2483
51028	B12	56819	283768	GOLGA8G	0.0963	1.2483
11065	B05	6637	56342	PPAN	0.0963	1.2483
11003	C07	9929	901	CCNG2	0.0964	1.2486
11006	C07	9633	283518	KCNRG	0.0965	1.2487
11002	F08	9896	114900	C1QTNF4	0.0965	1.2487
11034	C07	882	NA	NA	0.0965	1.2489
11021	C02	5180	26207	PITPNC1	0.0966	1.2490
31026	E08	13964	10321	CRISP3	0.0966	1.2490
51021	A10	55731	94120	SYTL3	0.0966	1.2490
11032	G07	1954	124817	CNTD1	0.0966	1.2491
11011	C02	3183	1937	EEF1G	0.0966	1.2492
11044	A03	637	7485	WRB	0.0966	1.2493
51013	H07	52808	386724	AMIGO3	0.0967	1.2493
11016	B07	9090	8828	NRP2	0.0967	1.2493
11051	A01	4867	1749	DLX5	0.0968	1.2498
11062	C10	1167	3671	ISLR	0.0969	1.2498
11054	B11	1580	4113	MAGEB2	0.0969	1.2499
11061	F05	10228	2694	GIF	0.0969	1.2500
51022	H03	55849	2492	FSHR	0.0969	1.2501
11052	C05	4416	79172	CENPO	0.0970	1.2503
31006	D11	11183	57822	GRHL3	0.0971	1.2504
31016	C03	12513	9801	MRPL19	0.0971	1.2505
11048	F09	7193	939	CD27	0.0971	1.2506

31012	B01	12279	27254	CSDC2	0.0971	1.2506
11027	G08	4015	10912	GADD45G	0.0971	1.2506
31044	B11	428	6137	RPL13	0.0971	1.2506
11057	H09	979	3106	HLA-B	0.0972	1.2509
11086	F12	6966	9908	G3BP2	0.0973	1.2512
11076	B03	3943	55308	DDX19A	0.0973	1.2512
51032	H09	56904	92196	DAPL1	0.0974	1.2515
11035	G03	6779	26135	SERBP1	0.0974	1.2515
11006	E08	3194	1316	KLF6	0.0975	1.2516
11032	C01	10012	58485	TRAPPC1	0.0975	1.2518
11067	G01	6573	84188	FAR1	0.0975	1.2518
11044	H08	890	3005	H1F0	0.0976	1.2520
51021	F06	55851	1584	CYP11B1	0.0976	1.2520
11046	E08	5052	25974	MMACHC	0.0977	1.2523
11060	H10	105	25829	TMEM184B	0.0978	1.2525
11047	G01	7396	85365	ALG2	0.0978	1.2526
11054	B12	1706	83894	TTC29	0.0978	1.2526
11079	B10	2669	7414	VCL	0.0979	1.2528
11076	F10	1560	113835	ZNF257	0.0979	1.2528
11049	C03	2030	362	AQP5	0.0980	1.2531
11043	H05	6	7178	TPT1	0.0980	1.2531
11060	A07	4438	79364	ZXDC	0.0980	1.2532
11051	C09	612	112869	CCDC101	0.0980	1.2532
51034	G05	54071	90316	TGIF2LX	0.0981	1.2533
51029	F05	55481	4063	LY9	0.0982	1.2536
31040	F12	8997	3298	HSF2	0.0982	1.2536
11014	B06	154	3104	ZBTB48	0.0982	1.2538
11065	E02	1031	23729	SHPK	0.0983	1.2539
11067	A06	2988	10946	SF3A3	0.0983	1.2539
11063	B01	1814	10130	PDIA6	0.0984	1.2542
51008	H07	55167	9758	FRMPD4	0.0984	1.2542
11086	A01	5480	51562	MBIP	0.0984	1.2543
11026	C06	9212	63947	DMRTC1	0.0984	1.2543
51022	E12	56421	85369	FAM40A	0.0985	1.2546
31002	A12	10608	80829	ZFP91	0.0986	1.2548
11014	E09	3024	84171	LOXL4	0.0986	1.2549
51004	B10	55065	81341	OR10W1	0.0986	1.2550
51021	C02	56793	5081	PAX7	0.0987	1.2550
11068	B10	9580	23432	GPR161	0.0987	1.2551
11081	C09	8996	5319	PLA2G1B	0.0987	1.2551
51012	F11	53653	81031	SLC2A10	0.0987	1.2552
51014	H06	52914	431705	ASTL	0.0987	1.2552
11011	C12	423	3931	LCAT	0.0987	1.2552
11058	D06	1135	133022	TRAM1L1	0.0988	1.2555

11011	A07	3026	113235	SLC46A1	0.0989	1.2556
11034	H08	8688	8863	PER3	0.0989	1.2556
51026	F08	56852	57157	PHTF2	0.0989	1.2557
51021	A06	55874	144402	CPNE8	0.0989	1.2557
11069	C03	8111	3454	IFNAR1	0.0989	1.2557
31020	D07	13131	2959	GTF2B	0.0989	1.2558
11010	A09	396	6122	RPL3	0.0989	1.2558
11052	E03	4147	9249	DHRS3	0.0990	1.2560
11011	C06	3177	1201	CLN3	0.0990	1.2561
51002	E11	54924	79008	GIYD2	0.0991	1.2564
11010	D02	3168	2805	GOT1	0.0992	1.2565
11011	D03	7513	5700	PSMC1	0.0992	1.2566
51021	A12	56812	23034	SAMD4A	0.0992	1.2566
11007	D01	3083	27292	DIMT1L	0.0992	1.2567
31008	G08	11636	7802	DNALI1	0.0993	1.2570
11073	G08	1109	153768	PRELID2	0.0994	1.2572
11026	A09	8424	NA	NA	0.0995	1.2574
31034	C02	14899	140881	DEFB129	0.0996	1.2579
31020	D06	13152	80231	CXorf21	0.0997	1.2581
11055	A11	367	112479	ERI2	0.0997	1.2581
11050	D01	8555	57510	XPO5	0.0997	1.2582
11063	H01	4912	84675	TRIM55	0.0998	1.2583
11066	A06	1549	7718	ZNF165	0.0998	1.2584
31030	G05	14207	90957	DHX57	0.0998	1.2584
11051	D04	4310	84767	SPRYD5	0.0998	1.2584
31039	H05	8814	57162	PELI1	0.0998	1.2585
11026	F02	8580	80267	EDEM3	0.0999	1.2585
11067	A08	1414	26206	SPAG8	0.0999	1.2586
51012	C07	53844	124872	B4GALNT2	0.0999	1.2586
51004	G01	53902	80739	C6orf25	0.1000	1.2588
51002	D12	54676	644591	PPIAL4G	0.1000	1.2590
11002	D08	9859	93377	OPALIN	0.1000	1.2590
11062	A12	578	30	ACAA1	0.1001	1.2592
31025	B05	13566	23268	DNMBP	0.1001	1.2593
11064	C06	7277	64116	SLC39A8	0.1002	1.2594
31030	F04	14444	51422	PRKAG2	0.1003	1.2597
51001	H11	54669	220979	C10orf25	0.1003	1.2598
11050	D06	5609	25936	NSL1	0.1004	1.2601
11048	H04	111	5372	PMM1	0.1004	1.2602
51025	H04	55704	55914	ERBB2IP	0.1005	1.2604
11063	D10	8256	8760	CDS2	0.1005	1.2604
11050	C01	4138	79156	PLEKHF1	0.1005	1.2605
51023	A05	56088	9829	DNAJC6	0.1006	1.2606
31022	H09	13389	90416	C15orf57	0.1007	1.2608

31006	D10	11310	124454	EARS2	0.1007	1.2608
11052	F09	2709	1398	CRK	0.1007	1.2609
11034	C11	3439	84614	ZBTB37	0.1008	1.2611
11067	A12	9130	22907	DHX30	0.1008	1.2613
31001	C03	10476	23627	PRND	0.1010	1.2617
11066	A03	6622	11232	POLG2	0.1010	1.2617
11062	A03	9241	130540	ALS2CR12	0.1010	1.2618
11062	B10	5027	10053	AP1M2	0.1011	1.2620
11015	A11	8983	85002	FAM86B1	0.1011	1.2620
11056	B06	132	302	ANXA2	0.1011	1.2621
51034	D01	53806	3441	IFNA4	0.1012	1.2625
31045	B02	3077	10616	RBCK1	0.1012	1.2625
11049	D12	5579	64105	CENPK	0.1013	1.2627
11057	G09	632	81929	SEH1L	0.1013	1.2627
11045	G04	2515	26291	FGF21	0.1013	1.2627
51012	G10	52717	728929	TCEB3CL	0.1013	1.2627
11058	G06	8917	9780	FAM38A	0.1014	1.2629
31025	C07	13586	64780	MICAL1	0.1014	1.2629
11067	F07	2442	3615	IMPDH2	0.1014	1.2629
31019	D12	13149	54967	CXorf48	0.1014	1.2629
31028	E12	14270	472	ATM	0.1014	1.2630
11041	G08	2777	114932	MRFAP1L1	0.1015	1.2633
11018	F02	6192	685	BTC	0.1016	1.2637
31013	E09	11844	23313	C22orf9	0.1017	1.2637
11013	A03	4597	63929	XPNPEP3	0.1017	1.2638
31005	E05	10996	29777	ABT1	0.1017	1.2639
11061	G11	5657	1357	CPA1	0.1017	1.2639
51028	F02	56635	54658	UGT1A1	0.1017	1.2639
11055	D10	7449	26995	TRUB2	0.1018	1.2640
11087	D04	1825	79070	KDELC1	0.1019	1.2643
11053	B12	7419	139596	UPRT	0.1019	1.2644
31045	A07	9636	80183	C13orf18	0.1020	1.2648
11020	F08	7591	93487	MAPK11P1L	0.1020	1.2649
51031	F10	56477	345611	IRGM	0.1021	1.2650
11084	F05	1172	408263	C5orf40	0.1021	1.2650
11039	E05	5886	2000	ELF4	0.1021	1.2651
31008	A05	11443	147372	CCBE1	0.1021	1.2651
51024	C05	53569	7403	KDM6A	0.1021	1.2652
11073	A09	4088	90410	IFT20	0.1022	1.2653
31033	A08	14877	78996	C7orf49	0.1022	1.2655
11019	A09	7342	581	BAX	0.1023	1.2655
11055	H08	511	51375	SNX7	0.1024	1.2658
11081	E07	6492	201254	STRA13	0.1024	1.2659
31044	F06	4712	29803	REPIN1	0.1025	1.2661

11068	D01	1241	123016	TTC8	0.1026	1.2664
11014	E04	750	23246	BOP1	0.1026	1.2665
51005	E03	54077	374470	C12orf42	0.1027	1.2667
51022	A04	55869	8227	SFRS17A	0.1027	1.2668
31032	G01	14592	4322	MMP13	0.1027	1.2668
11038	A01	5913	79012	CAMKV	0.1027	1.2669
11065	E10	5803	3434	IFIT1	0.1028	1.2669
51034	G07	54686	5545	PRB4	0.1029	1.2672
11035	B08	9788	9649	RALGPS1	0.1029	1.2673
11068	G11	7101	387032	ZKSCAN4	0.1029	1.2673
11005	B01	2588	9094	UNC119	0.1029	1.2674
11008	B09	5626	11055	ZPBP	0.1030	1.2676
31024	C01	13581	3805	KIR2DL4	0.1030	1.2676
11088	H02	10231	5068	REG3A	0.1030	1.2678
51032	B09	56829	386684	KRTAP12-4	0.1031	1.2679
51022	G06	56174	9360	PPIG	0.1032	1.2681
51015	D12	53982	284424	C19orf30	0.1032	1.2681
11019	C07	7371	494150	LOC494150	0.1032	1.2682
11068	A08	9898	56301	SLC7A10	0.1032	1.2682
51024	E07	56296	8736	MYOM1	0.1032	1.2682
11032	A10	9482	10476	ATP5H	0.1032	1.2683
31042	G01	4843	84804	MFSD9	0.1032	1.2683
31007	H11	11398	64975	MRPL41	0.1032	1.2683
51005	E01	54050	3077	HFE	0.1033	1.2684
51029	A05	56040	222553	SLC35F1	0.1033	1.2685
51034	C09	55035	NA	NA	0.1033	1.2686
11008	B08	5430	9114	ATP6V0D1	0.1033	1.2686
51004	E07	53786	80380	PDCD1LG2	0.1033	1.2686
11034	A02	7964	81875	ISG20L2	0.1033	1.2686
31006	E01	10824	7474	WNT5A	0.1034	1.2687
51032	H01	56765	155006	TMEM213	0.1034	1.2688
11021	H10	7127	9454	HOMER3	0.1034	1.2688
51018	A03	55777	11015	KDELR3	0.1034	1.2689
11018	F05	7664	23478	SEC11A	0.1034	1.2689
11024	B11	4641	84859	LRCH3	0.1035	1.2690
11047	A11	4291	6122	RPL3	0.1035	1.2691
31011	D06	12033	60489	APOBEC3G	0.1035	1.2691
51027	C12	55224	8664	EIF3D	0.1035	1.2691
11063	C03	6914	55902	ACSS2	0.1035	1.2692
11079	D07	1182	55753	OGDHL	0.1035	1.2692
11049	F07	6645	79758	DHRS12	0.1036	1.2693
51025	G04	56879	22878	KIAA1012	0.1036	1.2694
11068	F08	10172	285761	DCBLD1	0.1036	1.2694
31026	H09	13816	9350	CER1	0.1036	1.2695

51016	G06	55983	253018	HCG27	0.1036	1.2695
11011	A04	3100	5328	PLAU	0.1037	1.2696
11036	B01	6041	2222	FDFT1	0.1037	1.2698
11067	F09	6841	6301	SARS	0.1037	1.2698
11006	F07	8890	11180	WDR6	0.1038	1.2698
11069	D10	4339	9517	SPTLC2	0.1038	1.2699
11013	H07	6169	57325	CSRP2BP	0.1038	1.2700
11026	C05	3117	2958	GTF2A2	0.1038	1.2700
51035	D05	53775	4010	LMX1B	0.1038	1.2701
31009	H01	11485	23318	ZCCHC11	0.1038	1.2701
31017	B09	12922	54830	NUP62CL	0.1039	1.2702
11057	B06	2885	11070	TMEM115	0.1039	1.2702
51034	E09	54658	284021	C17orf60	0.1039	1.2703
11067	A03	7580	18	ABAT	0.1039	1.2704
11060	H08	5590	6999	TDO2	0.1039	1.2704
11040	D01	7170	54626	HES2	0.1041	1.2708
31014	F09	12347	10643	IGF2BP3	0.1041	1.2708
51032	F03	55760	64184	EDDM3B	0.1043	1.2714
11065	B04	5078	10955	SERINC3	0.1044	1.2716
51022	E09	56666	90317	ZNF616	0.1044	1.2717
51034	F03	13840	3982	LIM2	0.1044	1.2717
51015	A11	52866	1084	CEACAM3	0.1045	1.2719
51023	A01	56339	166336	PRICKLE2	0.1046	1.2723
11041	E08	806	3429	IFI27	0.1046	1.2723
51032	A08	12276	54014	BRWD1	0.1046	1.2723
11085	H02	4090	9474	ATG5	0.1046	1.2724
11048	H09	2945	6901	TAZ	0.1046	1.2725
11042	F06	8531	222234	FAM185A	0.1047	1.2725
31018	C08	13121	151903	CCDC12	0.1047	1.2726
11017	G10	7901	113419	TEX261	0.1047	1.2727
51014	A06	52930	136227	EMID2	0.1048	1.2728
51034	H04	53866	605	BCL7A	0.1048	1.2729
11034	D02	1997	57007	CXCR7	0.1048	1.2729
11042	E04	8935	55778	ZNF839	0.1048	1.2730
51013	B02	54289	249	ALPL	0.1049	1.2732
11019	D12	5363	83463	MXD3	0.1050	1.2734
11087	A08	2961	5528	PPP2R5D	0.1050	1.2734
51010	F09	52907	57476	GRAMD1B	0.1051	1.2737
11076	E10	1555	340252	ZNF680	0.1052	1.2740
11032	G10	6293	3078	CFHR1	0.1052	1.2740
11052	D10	5829	23057	NMNAT2	0.1052	1.2740
31044	B01	8964	84960	KIAA1984	0.1052	1.2741
11067	B02	7186	51530	ZC3HC1	0.1053	1.2743
11048	F10	537	133957	CCDC127	0.1053	1.2743

11035	A11	6312	11342	RNF13	0.1053	1.2745
11061	C03	1611	220082	SPERT	0.1054	1.2745
51016	B03	53731	84666	RETNLB	0.1054	1.2746
11038	F04	6153	10384	BTN3A3	0.1054	1.2746
11013	F05	4627	57486	NLN	0.1054	1.2747
11035	D01	4683	5160	PDHA1	0.1055	1.2749
51012	A08	53521	257236	CCDC96	0.1055	1.2750
51012	C08	54497	6580	SLC22A1	0.1055	1.2750
51029	C12	55647	58487	CREBZF	0.1056	1.2752
11041	B02	5139	85014	TMEM141	0.1056	1.2753
51034	A09	13856	29126	CD274	0.1056	1.2753
11065	H03	4890	284058	KIAA1267	0.1056	1.2753
11085	H06	6301	7762	ZNF215	0.1056	1.2754
11042	F01	1918	154089	MGC34034	0.1056	1.2754
31037	D07	13599	10257	ABCC4	0.1057	1.2755
11050	C07	7056	483	ATP1B3	0.1057	1.2756
31033	H02	14677	550	AUP1	0.1057	1.2756
11068	G10	7344	3500	IGHG1	0.1058	1.2759
11043	D03	7214	4097	MAFG	0.1059	1.2760
51016	D10	56146	8620	NPFF	0.1059	1.2760
51005	F08	56032	54221	SNTG2	0.1059	1.2760
11034	B12	4657	23640	HSPBP1	0.1059	1.2761
11035	F11	6054	118	ADD1	0.1060	1.2763
51001	A12	52622	54344	DPM3	0.1060	1.2765
11067	A01	543	83690	CRISPLD1	0.1060	1.2765
11014	D05	128	57326	PBXIP1	0.1061	1.2767
11026	C12	2737	1058	CENPA	0.1061	1.2768
11010	C04	733	64766	S100BPB	0.1061	1.2768
51021	H03	56653	3298	HSF2	0.1062	1.2770
11058	F04	2172	162681	C18orf54	0.1063	1.2772
11083	G01	8495	54360	CYTL1	0.1063	1.2773
51011	F03	54826	56139	PCDHA10	0.1063	1.2773
51017	F05	56111	134121	C5orf49	0.1063	1.2773
51015	B06	52868	26189	OR1A2	0.1063	1.2774
11027	F05	9506	51710	ZNF44	0.1065	1.2778
11088	F12	1432	11069	RAPGEF4	0.1065	1.2780
31043	C02	7355	5296	PIK3R2	0.1065	1.2780
31034	D02	14962	11014	KDELR2	0.1066	1.2781
31003	D06	10512	55157	DARS2	0.1066	1.2782
51034	F08	54410	25770	C22orf31	0.1066	1.2782
11010	A10	5966	8225	GTPBP6	0.1067	1.2784
51002	D03	52810	149134	LOC149134	0.1067	1.2784
31007	A10	11487	84268	RPAIN	0.1068	1.2788
11029	H03	8930	79039	DDX54	0.1068	1.2788

11015	H11	5588	6373	CXCL11	0.1068	1.2789
51021	F05	55835	3267	AGFG1	0.1068	1.2789
31022	G11	13367	10431	LOC10431	0.1069	1.2790
51022	D06	56671	153769	SH3RF2	0.1069	1.2790
11010	E04	5883	5973	RENBP	0.1069	1.2790
11057	B10	6859	8892	EIF2B2	0.1069	1.2790
11037	G01	3219	84056	KATNAL1	0.1069	1.2791
11032	A07	7018	115817	DHRS1	0.1069	1.2791
31037	H05	14053	2797	GNRH2	0.1069	1.2792
51028	B07	53293	5414	SEPT4	0.1070	1.2792
11014	G01	8566	11325	DDX42	0.1070	1.2793
11067	G08	4139	55709	KBTBD4	0.1070	1.2793
11076	A04	3881	3437	IFIT3	0.1070	1.2794
31006	F10	11227	2140	EYA3	0.1070	1.2794
31010	A11	11351	80824	DUSP16	0.1070	1.2794
31007	H08	11134	58506	SCAF1	0.1071	1.2795
11001	A06	2752	NA	NA	0.1071	1.2797
11022	B09	7268	25822	DNAJB5	0.1071	1.2797
31012	C11	11885	2483	FRG1	0.1072	1.2798
11043	C08	8243	6500	SKP1	0.1072	1.2799
51021	H11	56694	55015	PRPF39	0.1072	1.2799
11067	H02	9730	255394	TCP11L2	0.1073	1.2801
31001	F05	10787	375519	GJB7	0.1074	1.2806
11014	F09	5265	5211	PFKL	0.1075	1.2807
11005	H05	5719	8813	DPM1	0.1075	1.2807
51010	F06	54017	57595	PDZD4	0.1076	1.2810
11074	D12	1875	6141	RPL18	0.1076	1.2811
51010	D05	53052	4593	MUSK	0.1076	1.2812
11043	A11	5771	4259	MGST3	0.1076	1.2813
51021	E01	56383	11119	BTN3A1	0.1077	1.2814
11066	D02	274	3790	KCNS3	0.1078	1.2817
51024	E10	55153	4625	MYH7	0.1079	1.2821
31018	E04	12902	54812	AFTPH	0.1080	1.2822
11013	G09	3739	6850	SYK	0.1080	1.2823
11032	E06	7059	348013	FAM70B	0.1080	1.2824
11065	H07	1618	3433	IFIT2	0.1080	1.2824
11056	F10	8101	10613	ERLIN1	0.1081	1.2826
51015	D09	52903	9997	SCO2	0.1081	1.2826
11019	H08	3340	55608	ANKRD10	0.1081	1.2826
31015	H03	12461	80335	WDR82	0.1082	1.2828
11056	H01	8511	118672	PSTK	0.1082	1.2828
11011	F02	5240	8463	TEAD2	0.1082	1.2829
11050	G05	382	116224	FAM122A	0.1082	1.2829
11065	G02	7666	23516	SLC39A14	0.1083	1.2832

11022	D08	7683	5429	POLH	0.1083	1.2833
11006	G01	2208	138046	RALYL	0.1083	1.2833
11064	H02	1259	4208	MEF2C	0.1083	1.2834
11058	B02	2789	3105	HLA-A	0.1084	1.2835
11056	C04	3772	5985	RFC5	0.1084	1.2836
11081	D05	1537	11341	SCRG1	0.1084	1.2836
51026	H04	55876	56145	PCDHA3	0.1085	1.2838
51016	A05	55740	140596	DEFB104A	0.1085	1.2838
11034	H07	6903	54903	MKS1	0.1085	1.2838
11037	G05	4935	6570	SLC18A1	0.1086	1.2842
11029	D09	3960	6388	SDF2	0.1087	1.2843
11032	H01	10027	51326	ARL17A	0.1087	1.2844
51030	B12	55531	54840	APTX	0.1087	1.2845
51022	A08	55825	51224	TCEB3B	0.1088	1.2846
11035	G08	6391	51095	TRNT1	0.1088	1.2846
51026	A06	55542	57591	MKL1	0.1088	1.2847
11046	D05	9798	116841	SNAP47	0.1088	1.2848
11018	C06	7504	51187	RSL24D1	0.1089	1.2849
11036	H07	9459	3811	KIR3DL1	0.1089	1.2851
11030	H06	7222	57103	C12orf5	0.1089	1.2851
11063	A01	1264	59271	C21orf63	0.1089	1.2851
11010	C06	6204	171586	ABHD3	0.1090	1.2854
11050	F07	4759	79720	VPS37B	0.1091	1.2857
11034	A12	6861	30968	STOML2	0.1091	1.2857
31018	G06	13235	286	ANK1	0.1091	1.2857
51013	G05	54142	10562	OLFM4	0.1092	1.2858
11041	E11	6371	29058	C20orf30	0.1092	1.2859
11019	E08	6578	5511	PPP1R8	0.1092	1.2859
11054	F05	6423	5713	PSMD7	0.1093	1.2861
11088	D02	5986	28966	SNX24	0.1093	1.2862
11065	D05	8254	3788	KCNS2	0.1095	1.2868
11081	H02	9627	401466	C8orf59	0.1095	1.2868
31009	A12	11829	54575	UGT1A10	0.1096	1.2871
11055	D04	2826	2841	GPR18	0.1097	1.2874
11083	B07	7724	80045	GPR157	0.1097	1.2875
31018	F09	13011	2822	GPLD1	0.1097	1.2875
31016	H04	12827	81285	OR51E2	0.1098	1.2876
11027	G04	586	2872	MKNK2	0.1098	1.2877
11064	C09	1926	257169	C9orf43	0.1099	1.2879
11014	C09	252	79797	ZNF408	0.1100	1.2883
11050	H06	6415	9200	PTPLA	0.1101	1.2884
11005	E11	741	7035	TFPI	0.1101	1.2884
11051	F09	138	4615	MYD88	0.1101	1.2886
51016	A01	54660	138240	C9orf57	0.1103	1.2892

11049	A10	9071	9139	CBFA2T2	0.1104	1.2893
51024	A08	55154	9928	KIF14	0.1105	1.2896
11034	B10	1186	185	AGTR1	0.1105	1.2897
51020	H10	56641	55890	GPRC5C	0.1105	1.2898
11019	B08	4040	56681	SAR1A	0.1105	1.2898
11013	D12	1298	30061	SLC40A1	0.1106	1.2899
31028	C02	14509	3713	IVL	0.1108	1.2906
31017	C09	12996	7033	TFF3	0.1108	1.2906
11038	D09	5091	84527	ZNF559	0.1108	1.2906
11057	C02	1048	29766	TMOD3	0.1109	1.2908
51014	A09	52874	64211	LHX5	0.1109	1.2908
11015	G07	6396	51259	TMEM216	0.1109	1.2909
11024	C05	4433	25904	CNOT10	0.1109	1.2910
11041	A09	5537	2745	GLRX	0.1110	1.2911
31010	A07	11328	631	BFSP1	0.1110	1.2912
31026	F09	14032	29935	RPA4	0.1110	1.2912
51023	B10	54655	260425	MAGI3	0.1111	1.2915
11066	A09	3018	10307	APBB3	0.1111	1.2915
11011	C08	7679	55277	FGGY	0.1111	1.2915
11053	B09	311	4100	MAGEA1	0.1111	1.2916
11054	F11	4527	705	BYSL	0.1112	1.2917
11017	A11	5695	84300	C6orf125	0.1112	1.2918
11065	B01	1153	79918	SETD6	0.1113	1.2920
11070	H06	9471	9466	IL27RA	0.1114	1.2923
51025	H05	56882	57579	FAM135A	0.1114	1.2923
31003	E07	10698	23111	SPG20	0.1114	1.2925
31018	B05	13031	84868	HAVCR2	0.1118	1.2935
11043	D08	6487	51187	RSL24D1	0.1118	1.2935
31012	C10	12110	55132	LARP1B	0.1119	1.2939
51002	A12	53083	151278	CCDC140	0.1119	1.2939
51004	C01	52664	55010	C12orf48	0.1119	1.2939
51032	E02	56476	55018	C17orf73	0.1119	1.2940
11032	F07	10128	116159	CYYR1	0.1120	1.2943
31006	A05	11295	7621	ZNF70	0.1121	1.2946
51015	F06	52669	7350	UCP1	0.1123	1.2950
11065	D06	9881	51127	TRIM17	0.1123	1.2950
31021	D11	12952	338094	FAM151A	0.1123	1.2951
11065	H11	753	51193	ZNF639	0.1123	1.2952
11063	E04	1086	26608	TBL2	0.1124	1.2954
11040	A08	8957	23174	ZCCHC14	0.1124	1.2954
11063	E02	3779	4245	MGAT1	0.1124	1.2954
11068	H01	7308	9815	GIT2	0.1125	1.2957
11014	D09	6277	81887	LAS1L	0.1125	1.2957
11077	B02	1268	9211	LGI1	0.1126	1.2959

51014	B03	53709	1326	MAP3K8	0.1126	1.2960
31023	B11	13366	6514	SLC2A2	0.1127	1.2961
11052	H02	3358	6871	TADA2A	0.1127	1.2962
11049	B06	8976	84171	LOXL4	0.1127	1.2962
31044	F11	1780	222008	VSTM2A	0.1127	1.2963
31015	C10	12679	28793	IGLV3-25	0.1128	1.2966
51014	A04	52904	1118	CHIT1	0.1130	1.2971
11051	H08	8948	55775	TDP1	0.1130	1.2971
31012	F08	12160	284338	PRR19	0.1130	1.2972
51025	E11	53267	4638	MYLK	0.1131	1.2973
51018	H06	56526	26097	C1orf77	0.1131	1.2974
11005	H10	8328	759	CA1	0.1132	1.2977
11008	C03	299	64112	MOAP1	0.1132	1.2977
11085	A05	7204	54814	QPCTL	0.1132	1.2978
31023	G06	13505	26260	FBXO25	0.1132	1.2979
11067	A04	9637	7186	TRAF2	0.1133	1.2979
51008	H08	56354	8202	NCOA3	0.1133	1.2980
11066	B10	9770	158427	TSTD2	0.1133	1.2980
11037	D12	3988	5425	POLD2	0.1133	1.2981
11046	C05	8084	9045	RPL14	0.1135	1.2986
51024	A10	56287	8729	GBF1	0.1135	1.2986
11066	A11	6569	79690	GAL3ST4	0.1135	1.2988
31043	H02	7522	509	ATP5C1	0.1137	1.2991
31040	E07	9980	5450	POU2AF1	0.1137	1.2992
31018	A03	13159	129446	XIRP2	0.1137	1.2992
11046	G07	6838	65265	C8orf33	0.1138	1.2995
31033	B01	14687	4074	M6PR	0.1139	1.2998
51035	A01	53734	6975	TECTB	0.1139	1.2998
51008	E12	53116	5794	PTPRH	0.1139	1.2999
11067	E07	2583	27079	RPUSD2	0.1139	1.3000
11055	A09	764	51377	UCHL5	0.1140	1.3001
31012	E07	12284	9789	SPCS2	0.1140	1.3001
51011	H07	54487	60494	CCDC81	0.1141	1.3006
11073	F12	967	241	ALOX5AP	0.1141	1.3006
11057	G01	4213	83759	RBM4B	0.1142	1.3006
51002	A08	54807	149950	LOC149950	0.1143	1.3010
11065	A12	878	84446	BRSK1	0.1143	1.3011
31038	D11	10196	54946	SLC41A3	0.1144	1.3013
11062	A01	5529	34	ACADM	0.1144	1.3014
31020	F09	13035	55303	GIMAP4	0.1145	1.3016
11034	F06	9771	4287	ATXN3	0.1145	1.3016
11046	C04	2427	665	BNIP3L	0.1145	1.3017
11046	G01	2656	116225	ZMYND19	0.1147	1.3021
51021	G10	55736	2035	EPB41	0.1147	1.3021

31004	F08	11121	55083	KIF26B	0.1147	1.3023
11084	C01	2213	51266	CLEC1B	0.1148	1.3025
11071	B02	9856	50613	UBQLN3	0.1148	1.3026
11024	B07	4650	55191	NADSYN1	0.1149	1.3028
31014	C06	12167	80339	PNPLA3	0.1149	1.3029
11049	H05	4424	9587	MAD2L1BP	0.1150	1.3031
51014	E02	53512	4321	MMP12	0.1150	1.3031
31031	G10	14567	25945	PVRL3	0.1150	1.3031
11047	E03	797	51444	RNF138	0.1151	1.3034
31010	H05	11626	283989	TSEN54	0.1151	1.3035
11076	D11	4605	3836	KPNA1	0.1151	1.3036
11055	D11	4115	3455	IFNAR2	0.1152	1.3037
31014	F02	12061	57162	PELI1	0.1152	1.3037
31030	F03	14319	4194	MDM4	0.1153	1.3039
11072	A01	2393	5597	MAPK6	0.1153	1.3041
11064	F10	8397	64925	CCDC71	0.1153	1.3041
11064	B07	2703	54995	OXSM	0.1153	1.3042
11028	B04	1290	5502	PPP1R1A	0.1155	1.3046
51023	A08	56254	8720	MBTPS1	0.1155	1.3046
11065	H08	10171	5277	PIGA	0.1155	1.3047
11068	A12	4501	993	CDC25A	0.1155	1.3048
11087	C06	5848	3074	HEXB	0.1155	1.3048
31022	D07	13759	6955	TRA@	0.1157	1.3052
31002	A07	10305	83548	COG3	0.1157	1.3052
11052	G08	559	961	CD47	0.1157	1.3054
11041	A03	4960	5092	PCBD1	0.1158	1.3055
11014	E10	2713	4292	MLH1	0.1158	1.3055
11018	C05	7414	51187	RSL24D1	0.1158	1.3056
51025	E10	55353	4641	MYO1C	0.1158	1.3057
11021	C05	5476	10136	CELA3A	0.1159	1.3058
11035	C11	3267	7251	TSG101	0.1159	1.3060
11032	G11	7409	116254	C6orf72	0.1159	1.3060
11025	B04	9406	463	ZFHX3	0.1160	1.3060
11047	F03	5014	80213	TM2D3	0.1160	1.3063
11074	E03	3944	1649	DDIT3	0.1161	1.3065
11058	D02	9205	91768	CABLES1	0.1163	1.3071
51031	A09	55311	10123	ARL4C	0.1163	1.3071
31026	F03	13817	57644	MYH7B	0.1163	1.3071
11034	A05	3277	2780	GNAT2	0.1164	1.3073
11044	A04	640	10874	NMU	0.1164	1.3073
31023	D10	13607	7392	USF2	0.1165	1.3075
11066	E01	3098	55650	PIGV	0.1165	1.3076
11068	D08	1368	1998	ELF2	0.1165	1.3077
11046	A02	4169	79159	NOL12	0.1166	1.3081

11011	E09	279	10241	CALCOCO2	0.1167	1.3082
11045	B11	9387	284418	FAM71E2	0.1167	1.3084
51032	A05	55229	57129	MRPL47	0.1168	1.3087
31031	B08	14638	7417	VDAC2	0.1169	1.3088
31014	H08	12005	84867	PTPN5	0.1169	1.3088
51015	A04	52857	7855	FZD5	0.1169	1.3089
51028	A03	53272	84448	ABLIM2	0.1170	1.3093
51021	G07	56037	114781	BTBD9	0.1170	1.3093
11024	A08	4720	51703	ACSL5	0.1171	1.3094
11051	A05	4984	25806	VAX2	0.1171	1.3094
11010	G10	391	12	SERPINA3	0.1171	1.3096
11069	C12	9526	84179	MFSD7	0.1172	1.3098
11065	B02	3012	2562	GABRB3	0.1172	1.3098
11053	D08	6145	51144	HSD17B12	0.1173	1.3101
11084	F06	9140	221	ALDH3B1	0.1173	1.3102
11065	D02	943	55006	TRMT61B	0.1174	1.3104
11052	H07	5732	5538	PPT1	0.1175	1.3106
11037	D05	6280	3500	IGHG1	0.1175	1.3107
11042	A10	8972	9043	SPAG9	0.1175	1.3107
51033	E07	53691	NA	NA	0.1175	1.3107
51004	D09	56525	386678	KRTAP10-11	0.1175	1.3108
11044	H10	1687	637	BID	0.1176	1.3109
11014	G11	2929	2891	GRIA2	0.1176	1.3109
11065	F05	638	84898	PLXDC2	0.1176	1.3110
51027	A06	56391	6401	SELE	0.1176	1.3110
51002	E04	53555	8329	HIST1H2AI	0.1177	1.3113
51033	H09	54873	388325	C17orf87	0.1177	1.3114
31008	D08	11747	84333	PCGF5	0.1178	1.3115
11041	G07	6739	NA	NA	0.1178	1.3117
11010	E12	3008	55290	BRF2	0.1179	1.3118
11003	C10	9014	25963	TMEM87A	0.1179	1.3118
11063	D07	2550	10383	TUBB2C	0.1182	1.3127
51032	B07	55364	388753	C1orf31	0.1183	1.3132
11055	E11	913	8894	EIF2S2	0.1183	1.3132
11014	G02	3055	23032	USP33	0.1185	1.3137
11004	D07	522	131177	FAM3D	0.1186	1.3139
11042	A08	5506	5303	PIN4	0.1186	1.3141
31033	E03	14685	51292	GMPR2	0.1187	1.3142
31036	E09	12388	80010	RMI1	0.1187	1.3144
51033	H07	53626	199834	LCE4A	0.1188	1.3145
11066	A12	6633	55572	FOXRED1	0.1188	1.3145
11088	E11	994	23398	PPWD1	0.1189	1.3148
11053	C10	5186	54707	GPN2	0.1189	1.3148
11067	C09	9159	3055	HCK	0.1189	1.3149

11037	B07	6011	3418	IDH2	0.1189	1.3149
51022	A12	56192	51092	SIDT2	0.1190	1.3153
11035	D03	1674	56983	KTELC1	0.1191	1.3154
31002	B07	10351	2742	GLRA2	0.1191	1.3155
51012	B07	53935	26576	SRPK3	0.1191	1.3155
11052	E07	8176	126789	PUSL1	0.1193	1.3161
11034	H09	1273	11197	WIF1	0.1194	1.3164
11034	D12	2069	6925	TCF4	0.1194	1.3165
11048	H11	2679	115560	ZNF501	0.1195	1.3167
11034	B06	7942	3133	HLA-E	0.1196	1.3170
31006	A12	11159	30061	SLC40A1	0.1196	1.3170
11010	C01	459	55274	PHF10	0.1196	1.3171
11059	F09	3017	112840	WDR89	0.1196	1.3172
31003	F01	10679	5962	RDX	0.1197	1.3173
11010	G06	898	10053	AP1M2	0.1197	1.3173
11034	F12	8053	3283	HSD3B1	0.1197	1.3174
11010	G08	6146	3712	IVD	0.1198	1.3175
31027	C03	14033	3354	HTR1E	0.1198	1.3177
11018	A07	9103	3268	AGFG2	0.1199	1.3180
51034	G04	54975	123688	AGPHD1	0.1199	1.3181
11081	A06	7096	155370	SBDSP1	0.1200	1.3184
11011	G08	2924	93145	OLFM2	0.1201	1.3185
31026	E09	14027	4908	NTF3	0.1201	1.3185
31039	E06	8596	728392	LOC728392	0.1202	1.3188
11008	D04	2908	23580	CDC42EP4	0.1203	1.3191
11019	D08	3688	79091	C16orf68	0.1203	1.3191
51023	B01	56292	7227	TRPS1	0.1203	1.3193
31013	E02	12367	51526	C20orf111	0.1205	1.3199
11058	A07	8041	10455	PECI	0.1206	1.3200
11037	B05	3197	835	CASP2	0.1206	1.3201
31006	B02	11219	5023	P2RX1	0.1206	1.3201
11046	F06	1062	54896	PQLC2	0.1207	1.3204
31012	H04	12065	79583	TMEM231	0.1208	1.3206
51031	C03	56897	80177	MYCT1	0.1208	1.3207
11026	A01	8633	5583	PRKCH	0.1209	1.3209
11053	F09	254	8402	SLC25A11	0.1209	1.3209
11040	G07	7526	56849	TCEAL7	0.1212	1.3220
11063	E01	4434	79581	GPR172A	0.1212	1.3220
11019	D02	9170	22926	ATF6	0.1212	1.3220
31020	C08	13018	10894	LYVE1	0.1214	1.3225
51022	C01	55855	3849	KRT2	0.1215	1.3227
11076	D10	9578	57546	PDP2	0.1215	1.3228
31012	D10	12044	64764	CREB3L2	0.1216	1.3232
31005	H05	10997	79635	CCDC121	0.1217	1.3233

31001	C01	10597	255330	C3orf46	0.1217	1.3234
11025	F07	2057	10733	PLK4	0.1217	1.3235
51022	A06	56340	5317	PKP1	0.1217	1.3235
11026	D02	1803	4698	NDUFA5	0.1217	1.3236
11027	F08	604	3397	ID1	0.1218	1.3238
31013	E11	12334	23648	SSBP3	0.1219	1.3239
11011	G01	6115	10376	TUBA1B	0.1219	1.3240
11054	B03	2571	8836	GGH	0.1219	1.3241
51023	B12	53687	3635	INPP5D	0.1220	1.3242
11011	A11	361	65983	GRAMD3	0.1220	1.3243
11070	E07	6665	3507	IGHM	0.1221	1.3245
31005	F03	10878	10620	ARID3B	0.1221	1.3246
11025	A10	2238	158248	TTC16	0.1221	1.3247
11051	D11	2090	81833	SPACA1	0.1222	1.3248
31014	F10	11863	126969	SLC44A3	0.1222	1.3250
51020	H05	56279	5733	PTGER3	0.1224	1.3255
11044	H05	6905	3704	ITPA	0.1224	1.3256
11015	F04	3329	4826	NNAT	0.1224	1.3257
31045	E01	717	54504	CPVL	0.1225	1.3258
11073	C11	4482	4828	NMB	0.1226	1.3262
31002	E11	10309	4133	MAP2	0.1226	1.3263
31007	B02	11174	330	BIRC3	0.1227	1.3264
11034	F01	9436	151126	ZNF385B	0.1228	1.3267
51026	C03	56312	122402	TDRD9	0.1229	1.3271
51022	H07	56251	1608	DGKG	0.1230	1.3273
11073	D02	4148	1396	CRIP1	0.1231	1.3278
31007	D05	11236	151636	DTX3L	0.1231	1.3278
11049	H06	5311	65263	PYCR1	0.1232	1.3279
11008	D11	582	51008	ASCC1	0.1232	1.3280
11014	B04	310	9836	LCMT2	0.1233	1.3282
31012	A05	11833	84545	MRPL43	0.1234	1.3285
11026	D09	9192	57380	MRS2	0.1234	1.3285
11034	B01	7779	10960	LMAN2	0.1234	1.3286
31043	A02	7385	79315	OR7E91P	0.1234	1.3287
11032	A02	6656	8613	PPAP2B	0.1235	1.3288
11015	A06	9175	118812	MORN4	0.1235	1.3289
11070	C07	6469	4929	NR4A2	0.1235	1.3289
11005	C12	2818	714	C1QC	0.1236	1.3291
11047	H05	6243	3219	HOXB9	0.1237	1.3294
31001	G01	10336	139341	FUNDC1	0.1237	1.3296
11057	B09	10240	5568	PRKACG	0.1237	1.3297
51004	G08	55425	283150	FOXR1	0.1238	1.3297
11012	H11	4014	1136	CHRNA3	0.1238	1.3298
31038	D12	9496	3587	IL10RA	0.1239	1.3301

51004	B09	55046	387914	SHISA2	0.1240	1.3303
31043	A01	5469	1837	DTNA	0.1240	1.3303
11005	E06	9745	121599	SPIC	0.1240	1.3304
51025	F05	56877	23035	PHLPP2	0.1240	1.3304
31044	B12	1593	219670	ENKUR	0.1241	1.3307
31037	F08	15039	5225	PGC	0.1242	1.3310
11073	C05	4167	79161	C7orf23	0.1242	1.3310
11076	C10	2598	23291	FBXW11	0.1242	1.3311
11082	A12	6099	6210	RPS15A	0.1244	1.3317
11071	G04	1465	84126	ATRIP	0.1244	1.3318
11065	F11	7744	3507	IGHM	0.1245	1.3321
51031	F01	56566	56244	BTNL2	0.1246	1.3323
51030	D05	55252	260294	NSUN5P2	0.1247	1.3324
11041	A06	2013	3753	KCNE1	0.1247	1.3325
11068	A10	7078	10385	BTN2A2	0.1248	1.3328
31040	D12	7106	9143	SYNGR3	0.1248	1.3330
11086	G03	9761	55251	PCMTD2	0.1249	1.3331
31038	F02	14745	23301	EHBP1	0.1249	1.3332
11040	F03	8759	123355	LRRC28	0.1249	1.3333
11008	B07	35	11171	STRAP	0.1249	1.3334
11040	F07	2558	389741	MGC21881	0.1250	1.3335
11067	A02	6939	51588	PIAS4	0.1251	1.3337
51024	C11	56351	9320	TRIP12	0.1251	1.3339
31034	E03	14918	23198	PSME4	0.1253	1.3345
51028	D05	55555	151835	CPNE9	0.1254	1.3348
11059	F12	10141	157	ADRBK2	0.1254	1.3349
31024	H03	13517	221	ALDH3B1	0.1255	1.3350
11010	E07	2684	9221	NOLC1	0.1255	1.3351
51033	E09	53459	144809	C13orf30	0.1256	1.3352
11035	F06	9644	13	AADAC	0.1256	1.3352
31003	E02	10528	136895	C7orf31	0.1256	1.3353
51017	H07	56601	54058	C21orf58	0.1257	1.3355
11054	G05	351	55754	TMEM30A	0.1257	1.3357
51014	C08	53016	51059	FAM135B	0.1258	1.3360
51001	G07	52625	284274	C18orf62	0.1259	1.3364
11032	C05	7756	27063	ANKRD1	0.1261	1.3368
31024	C02	13617	26580	BSCL2	0.1261	1.3368
31029	H07	14333	2635	GBP3	0.1261	1.3369
11010	D03	208	57561	ARRDC3	0.1261	1.3370
31008	H05	11532	398	ARHGDI3	0.1264	1.3378
11020	F06	7966	5860	QDPR	0.1264	1.3379
31043	B06	7605	64927	TTC23	0.1264	1.3379
51011	F10	52961	219988	PATL1	0.1264	1.3379
11041	B08	4491	84844	PHF5A	0.1264	1.3380

11044	B03	9136	9413	FAM189A2	0.1265	1.3382
31004	A05	10987	246184	CDC26	0.1266	1.3385
51024	C08	55156	727	C5	0.1267	1.3386
51012	C01	55026	9096	TBX18	0.1267	1.3388
11048	G04	539	7494	XBP1	0.1268	1.3389
31044	H09	462	6648	SOD2	0.1268	1.3391
31028	B10	14167	2893	GRIA4	0.1269	1.3394
11008	A08	6374	822	CAPG	0.1270	1.3398
31004	G03	10772	79632	FAM184A	0.1273	1.3405
11010	E06	571	5265	SERPINA1	0.1273	1.3406
51012	H02	54386	92935	MARS2	0.1273	1.3406
11052	E05	2750	23788	MTCH2	0.1274	1.3408
11019	G06	7576	51329	ARL6IP4	0.1274	1.3409
31043	H09	7362	7520	XRCC5	0.1274	1.3410
31015	B02	12569	6866	TAC3	0.1275	1.3411
51004	A04	52979	84709	C4orf49	0.1275	1.3411
51021	E04	13942	3037	HAS2	0.1275	1.3413
11007	H09	3268	4968	OGG1	0.1277	1.3419
11050	F09	345	84135	UTP15	0.1278	1.3421
11014	C08	573	29911	HOOK2	0.1279	1.3423
51032	F05	55660	144347	FAM101A	0.1279	1.3425
11083	A12	4757	10567	RABAC1	0.1280	1.3429
11048	E10	476	669	BPGM	0.1282	1.3432
11081	C04	2551	NA	NA	0.1282	1.3433
51025	E01	56889	57188	ADAMTSL3	0.1282	1.3434
11087	A12	1682	5747	PTK2	0.1283	1.3436
51009	E04	55076	285331	CCDC66	0.1283	1.3436
11030	B01	1019	256691	MAMDC2	0.1283	1.3437
31040	H01	2102	130162	C2orf63	0.1284	1.3439
11053	G11	4622	7126	TNFAIP1	0.1284	1.3440
11014	B09	997	79671	NLRX1	0.1284	1.3441
11004	H01	5578	7980	TFPI2	0.1285	1.3443
11025	G09	2167	220042	C11orf82	0.1286	1.3446
11051	E04	487	54923	LIME1	0.1286	1.3447
51022	D07	56668	167465	ZNF366	0.1288	1.3452
11010	C02	5315	84970	C1orf94	0.1288	1.3453
11007	G10	4420	84726	BAT2L	0.1288	1.3454
51022	F12	56175	10460	TACC3	0.1289	1.3455
31011	C05	12072	23363	OBSL1	0.1289	1.3456
11011	H10	8406	1369	CPN1	0.1289	1.3456
11067	B03	6563	7454	WAS	0.1292	1.3463
11019	B02	6319	51019	CCDC53	0.1292	1.3464
11069	H02	10001	3652	IPP	0.1293	1.3468
51015	F08	52815	282808	RAB40AL	0.1294	1.3471

11041	H07	3335	55766	H2AFJ	0.1295	1.3474
11041	C11	5593	6374	CXCL5	0.1295	1.3475
11062	A08	9208	25827	FBXL2	0.1297	1.3481
11025	D04	1431	22911	WDR47	0.1298	1.3484
11022	A06	7348	6617	SNAPC1	0.1299	1.3486
11043	B08	4781	527	ATP6V0C	0.1299	1.3486
11069	A12	9229	2712	GK2	0.1300	1.3489
31017	E12	12945	121504	HIST4H4	0.1300	1.3490
51032	A02	56901	285141	LOC285141	0.1301	1.3491
51017	F04	56615	1178	CLC	0.1301	1.3492
11057	C10	494	25987	TSKU	0.1301	1.3493
11011	E08	3488	2665	GDI2	0.1305	1.3505
11064	A05	6916	7132	TNFRSF1A	0.1306	1.3508
31037	G04	12969	127255	LRRIQ3	0.1307	1.3512
11068	C05	7848	55789	DEPDC1B	0.1307	1.3513
11057	B07	2217	90550	CCDC109A	0.1307	1.3513
51031	B07	56848	84698	CAPS2	0.1308	1.3513
31023	D08	13612	4105	MAGEA6	0.1308	1.3514
11010	E02	3824	548596	CKMT1A	0.1311	1.3524
31033	C10	14837	90070	LACRT	0.1313	1.3529
11076	B09	4252	5660	PSAP	0.1314	1.3534
11010	A07	3108	5054	SERPINE1	0.1314	1.3534
51013	D01	54753	137209	ZNF572	0.1315	1.3535
11041	G09	6491	10923	SUB1	0.1315	1.3536
11035	H06	3987	1798	DPAGT1	0.1316	1.3539
11084	C06	2294	92715	WDR85	0.1317	1.3543
11050	F06	8634	10914	PAPOLA	0.1320	1.3550
11065	H01	9326	90527	DUOXA1	0.1320	1.3551
11062	A04	4883	80262	C16orf70	0.1320	1.3551
51024	C06	55140	283316	CD163L1	0.1320	1.3552
51015	E07	52969	7705	ZNF146	0.1320	1.3553
11011	A01	6762	86	ACTL6A	0.1320	1.3553
11019	E01	7111	4610	MYCL1	0.1322	1.3560
11054	B02	2092	4800	NFYA	0.1323	1.3560
51022	C07	55861	6197	RPS6KA3	0.1323	1.3563
31008	B09	11576	120534	C11orf46	0.1324	1.3565
31015	D01	12496	51186	WBP5	0.1325	1.3569
11026	F06	9626	84897	TBRG1	0.1327	1.3573
51016	F02	54907	255220	TXNDC8	0.1327	1.3574
11046	B05	1752	80273	GRPEL1	0.1327	1.3574
11054	H06	5853	54850	FBXL12	0.1327	1.3574
11065	F07	7593	2624	GATA2	0.1328	1.3578
11056	D06	907	27229	TUBGCP4	0.1329	1.3580
31043	G04	6175	9212	AURKB	0.1330	1.3582

31022	G07	13408	51537	MTP18	0.1330	1.3584
11070	E02	9420	57096	RPGRIP1	0.1331	1.3586
11029	D03	6079	3148	HMGB2	0.1332	1.3588
11032	A01	9951	22829	NLGN4Y	0.1332	1.3589
11021	G06	3554	78992	YIPF2	0.1333	1.3591
51009	E07	52688	55088	C10orf118	0.1333	1.3591
31011	H01	11511	11231	SEC63	0.1333	1.3593
11064	A08	7191	159	ADSS	0.1335	1.3600
11035	F04	1573	220136	CCDC11	0.1336	1.3601
11014	H08	775	9569	GTF2IRD1	0.1336	1.3602
11007	D10	1941	84248	FYTTD1	0.1337	1.3604
31030	C08	14448	54867	TMEM214	0.1337	1.3604
31001	H03	10604	126299	ZNF428	0.1338	1.3607
51022	B12	56379	144165	PRICKLE1	0.1338	1.3608
31030	G08	14446	84542	KIAA1841	0.1338	1.3610
51014	B07	52982	54811	ZNF562	0.1339	1.3612
51026	E04	55687	132949	AASDH	0.1340	1.3613
51002	D06	52597	347148	QRFP	0.1340	1.3614
11060	H03	4273	51138	COPS4	0.1340	1.3616
31003	G09	10726	23028	KDM1A	0.1341	1.3616
11006	G11	8521	744	MPPED2	0.1341	1.3619
11032	G04	9239	26526	TSPAN16	0.1342	1.3620
31044	G10	485	91574	C12orf65	0.1343	1.3623
31045	C07	9821	883	CCBL1	0.1343	1.3624
11076	E11	835	5096	PCCB	0.1343	1.3624
31029	E09	14361	728798	FRMPD2L1	0.1344	1.3628
51027	A09	56304	84501	SPIRE2	0.1348	1.3638
31045	C09	7475	55825	PECR	0.1348	1.3640
11010	E08	303	91137	SLC25A46	0.1348	1.3640
11081	H01	8749	84826	SFT2D3	0.1348	1.3641
11026	H07	8808	83451	ABHD11	0.1348	1.3641
31029	F08	14395	6834	SURF1	0.1349	1.3642
31013	E04	12225	55334	SLC39A9	0.1349	1.3642
51016	E01	55070	80035	C15orf28	0.1349	1.3642
11064	A06	3800	2052	EPHX1	0.1349	1.3642
51032	A06	53352	79986	ZNF702P	0.1349	1.3644
11026	A05	8640	64062	RBM26	0.1349	1.3644
31002	C07	10316	4117	MAK	0.1351	1.3649
11034	C03	6766	79080	CCDC86	0.1351	1.3650
11067	B04	7804	816	CAMK2B	0.1352	1.3652
11085	H10	4894	79930	DOK3	0.1352	1.3653
11041	C05	8766	145447	ABHD12B	0.1354	1.3658
11013	E03	6599	8031	NCOA4	0.1354	1.3659
51018	A05	56537	1207	CLNS1A	0.1354	1.3660

11025	A07	4484	9156	EXO1	0.1355	1.3662
11020	H10	5796	10935	PRDX3	0.1358	1.3670
11010	E01	119	811	CALR	0.1359	1.3675
11002	D01	10097	254228	FAM26E	0.1360	1.3676
31022	A10	13372	79679	VTCN1	0.1360	1.3676
31017	G10	12954	152007	GLIPR2	0.1361	1.3682
31020	E05	13057	6955	TRA@	0.1361	1.3682
11018	D06	9068	29066	ZC3H7A	0.1362	1.3683
51022	G09	56674	139411	PTCHD1	0.1363	1.3687
31012	E03	12362	7905	REEP5	0.1364	1.3690
11062	A10	2373	55032	SLC35A5	0.1366	1.3695
11032	F08	9547	10016	PDCD6	0.1366	1.3697
51021	F09	56630	7748	ZNF195	0.1367	1.3698
31026	B05	13803	8820	HESX1	0.1367	1.3700
31004	B05	11137	6415	SEPW1	0.1367	1.3700
11046	H02	5046	4835	NQO2	0.1368	1.3704
11010	B08	301	5165	PDK3	0.1370	1.3707
11074	G08	2153	83604	TMEM47	0.1370	1.3708
31015	F11	12554	712	C1QA	0.1370	1.3710
11034	F07	3707	1999	ELF3	0.1371	1.3711
51023	A10	54623	23214	XPO6	0.1371	1.3711
11051	E11	1197	4340	MOG	0.1371	1.3713
31009	E04	11526	55314	TMEM144	0.1372	1.3717
11060	E07	6977	25937	WWTR1	0.1374	1.3720
11046	H05	3838	5050	PAFAH1B3	0.1374	1.3722
51015	B07	53100	284837	LOC284837	0.1376	1.3728
31010	F12	11777	7767	ZNF224	0.1376	1.3728
51025	E07	53189	493	ATP2B4	0.1377	1.3729
31045	G05	9836	375593	TRIM73	0.1378	1.3735
31015	E01	12709	148046	C19orf23	0.1380	1.3742
51014	D09	52794	348094	ANKDD1A	0.1381	1.3743
51004	G06	54389	160364	CLEC12A	0.1381	1.3743
31037	E10	14181	27291	C10orf28	0.1382	1.3747
11010	A06	3235	3983	ABLIM1	0.1384	1.3753
31029	G08	14372	126364	LRRC25	0.1384	1.3754
31020	B01	13245	3123	HLA-DRB1	0.1388	1.3765
11013	A11	8294	84888	SPPL2A	0.1388	1.3767
11054	H04	61	1994	ELAVL1	0.1389	1.3768
11058	F02	2830	92342	C1orf156	0.1390	1.3772
11043	F02	6128	25941	C18orf10	0.1391	1.3774
11011	G06	9111	84720	PIGO	0.1391	1.3776
31013	B10	12131	81502	HM13	0.1391	1.3777
31033	A11	14948	6138	RPL15	0.1392	1.3778
11005	H04	5509	54517	PUS7	0.1394	1.3784

11040	G08	5658	9341	VAMP3	0.1395	1.3788
51030	H05	55479	51296	SLC15A3	0.1395	1.3789
11073	B12	4644	52	ACPI	0.1396	1.3790
51014	B08	52702	54346	UNC93A	0.1396	1.3791
11034	C01	1642	3769	KCNJ13	0.1396	1.3791
11081	G02	1091	57189	KIAA1147	0.1396	1.3792
11032	A12	2623	81034	SLC25A32	0.1397	1.3793
11003	F12	8760	51530	ZC3HC1	0.1398	1.3798
11008	G08	6231	9672	SDC3	0.1399	1.3801
31022	D01	13339	57116	ZNF695	0.1401	1.3806
31032	G05	14555	79864	C11orf63	0.1401	1.3807
51020	G02	56651	4063	LY9	0.1401	1.3808
11069	C01	6539	29781	NCAPH2	0.1401	1.3808
11046	A06	2632	3543	IGLL1	0.1401	1.3808
11074	C07	1606	143241	DYDC1	0.1402	1.3810
51009	A11	53068	50617	ATP6V0A4	0.1402	1.3811
31026	A04	13799	8995	TNFSF18	0.1402	1.3811
11048	G09	488	8269	TMEM187	0.1403	1.3814
11062	B12	2050	5609	MAP2K7	0.1403	1.3814
31009	C01	11711	84549	MAK16	0.1404	1.3816
31001	C07	10697	90865	IL33	0.1404	1.3817
11057	C08	5636	51626	DYNC2LI1	0.1404	1.3818
11064	F11	8421	5407	PNLIPRP1	0.1405	1.3818
11005	H11	2085	84688	C9orf24	0.1406	1.3823
31012	C09	12137	8601	RGS20	0.1407	1.3826
51014	D07	52744	127833	SYT2	0.1407	1.3827
51031	A10	56499	1446	CSN1S1	0.1407	1.3827
11027	C06	3534	2876	GPX1	0.1408	1.3830
31022	E08	13319	820	CAMP	0.1408	1.3831
11045	H02	416	23270	TSPYL4	0.1409	1.3831
11019	D06	7937	8934	RAB7L1	0.1409	1.3832
11050	A10	4879	26577	PCOLCE2	0.1410	1.3834
11058	H05	8226	7913	DEK	0.1410	1.3835
31028	E10	14161	375686	SPATC1	0.1411	1.3838
11028	F06	3495	54499	TMCO1	0.1411	1.3839
31011	D05	12066	NA	NA	0.1411	1.3840
31031	D10	14601	9293	GPR52	0.1412	1.3842
51022	E01	56382	8554	PIAS1	0.1412	1.3843
31026	A09	13815	9622	KLK4	0.1413	1.3845
51016	G01	54093	117285	DEFB118	0.1415	1.3850
11070	H03	315	9823	ARMCX2	0.1415	1.3851
51034	H10	54149	126326	GIPC3	0.1415	1.3851
11019	F07	6379	51642	MRPL48	0.1415	1.3851
51010	C07	54632	1183	CLCN4	0.1416	1.3854

11042	H02	7334	54458	PRR13	0.1417	1.3859
31028	E09	14173	1462	VCAN	0.1418	1.3860
11045	A12	6425	29099	COMMD9	0.1418	1.3861
11030	H07	7487	3087	HHEX	0.1419	1.3863
51024	C09	55151	23198	PSME4	0.1419	1.3863
51013	F07	54817	63951	DMRTA1	0.1420	1.3868
11043	E03	6342	29098	RANGRF	0.1421	1.3872
31003	B12	10633	57653	KIAA1529	0.1422	1.3875
11026	B05	724	10169	SERF2	0.1423	1.3876
11073	F05	4513	4718	NDUFC2	0.1423	1.3876
11081	B09	9353	54918	CMTM6	0.1425	1.3884
11036	H02	9866	51364	ZMYND10	0.1426	1.3886
11047	C07	5012	56675	NRIP3	0.1426	1.3886
11041	A04	5932	2079	ERH	0.1426	1.3888
11052	G04	1778	256979	SUN3	0.1427	1.3890
51016	B08	56614	54544	CRCT1	0.1427	1.3891
31015	F09	12598	26231	LRRC29	0.1428	1.3895
51012	A06	53738	285093	C2orf85	0.1430	1.3900
31001	D07	10644	30010	NXPH1	0.1433	1.3911
51034	C01	53614	199699	DAND5	0.1436	1.3919
11049	G07	6877	54902	TTC19	0.1437	1.3922
31012	B08	11832	8915	BCL10	0.1438	1.3925
11059	H02	2595	7040	TGFB1	0.1440	1.3931
11065	C04	1716	51175	TUBE1	0.1443	1.3942
51014	A07	52802	200894	ARL13B	0.1444	1.3945
11072	C12	143	2146	EZH2	0.1447	1.3955
31032	A01	14490	55915	LANCL2	0.1448	1.3958
51035	B05	53721	2693	GHSR	0.1449	1.3961
31015	D09	12441	63932	CXorf56	0.1449	1.3962
11055	G10	4123	5329	PLAUR	0.1450	1.3962
11027	G05	8854	3609	ILF3	0.1450	1.3963
51001	F09	52913	57701	NCKAP5L	0.1452	1.3969
51032	D04	56902	642204	LOC642204	0.1452	1.3971
11027	G06	9189	6512	SLC1A7	0.1453	1.3972
31026	B03	13861	2122	MECOM	0.1453	1.3973
11011	C01	250	1937	EEF1G	0.1455	1.3978
11008	A07	153	79885	HDAC11	0.1455	1.3979
11037	D09	3525	2519	FUCA2	0.1455	1.3980
11065	D03	2704	5468	PPARG	0.1455	1.3981
11010	B06	5872	56944	OLFML3	0.1456	1.3982
31008	E06	11828	168451	THAP5	0.1457	1.3986
11043	G03	8543	169693	C9orf71	0.1457	1.3987
51010	F11	54116	91828	C14orf73	0.1458	1.3990
11012	G08	1768	55329	MNS1	0.1461	1.3999

51012	B05	53014	163049	ZNF791	0.1461	1.4000
11068	F01	9726	22845	DOLK	0.1462	1.4002
11027	F04	2618	5202	PFDN2	0.1463	1.4007
11054	G11	3678	55692	LUC7L	0.1465	1.4011
11007	H08	5843	79780	CCDC82	0.1466	1.4014
31008	H09	11623	25961	NUDT13	0.1466	1.4015
31006	G04	11264	9525	VPS4B	0.1467	1.4017
31044	H11	884	3111	HLA-DOA	0.1467	1.4019
31045	A05	9632	6583	SLC22A4	0.1469	1.4025
11048	G06	5451	3817	KLK2	0.1472	1.4034
11040	D08	6582	56998	CTNNBIP1	0.1472	1.4034
51004	C11	53209	114899	C1QTNF3	0.1473	1.4039
51014	B01	53662	359710	C20orf185	0.1474	1.4040
31008	G10	11335	57408	LRTM1	0.1474	1.4041
11034	D07	6039	55520	ELAC1	0.1475	1.4044
11010	H02	7988	2149	F2R	0.1475	1.4045
11068	A03	9905	11284	PNKP	0.1476	1.4048
11011	H11	3595	27429	HTRA2	0.1476	1.4049
11008	B10	2747	79607	FAM118B	0.1477	1.4051
11054	F08	8556	3257	HPS1	0.1479	1.4058
51012	H05	54522	221786	FAM200A	0.1480	1.4060
51028	F11	55547	129804	FBLN7	0.1480	1.4061
11059	D07	8075	93517	SDR42E1	0.1481	1.4064
11067	D10	9693	79960	PHF17	0.1482	1.4067
11013	F06	5308	2547	XRCC6	0.1482	1.4068
31045	C08	4317	83719	YPEL3	0.1488	1.4086
11068	A04	9552	79703	C11orf80	0.1488	1.4088
31028	C10	14140	55844	PPP2R2D	0.1489	1.4089
11068	A09	4928	6095	RORA	0.1489	1.4090
11014	A11	3912	7045	TGFBI	0.1490	1.4091
11015	H04	5765	199777	ZNF626	0.1490	1.4091
11030	D08	3676	58528	RRAGD	0.1491	1.4095
11035	B04	2126	2553	GABPB1	0.1491	1.4096
51018	C09	56281	283576	ZDHHC22	0.1491	1.4097
31004	B02	10544	55252	ASXL2	0.1492	1.4098
11064	D01	2486	8503	PIK3R3	0.1493	1.4102
11069	H06	9226	161931	ADAD2	0.1494	1.4107
11052	H08	9131	114780	PKD1L2	0.1496	1.4112
11081	E08	9879	83786	FRMD8	0.1499	1.4123
51022	G04	56060	7768	ZNF225	0.1501	1.4128
11032	C02	9645	2272	FHIT	0.1503	1.4135
11014	B05	6723	79611	ACSS3	0.1503	1.4136
11030	D09	3681	4729	NDUFV2	0.1504	1.4139
11011	H05	309	29781	NCAPH2	0.1506	1.4145

11007	A12	9649	256356	GK5	0.1507	1.4149
11067	F12	4516	64395	GMCL1	0.1512	1.4165
31014	D05	12359	9054	NFS1	0.1512	1.4166
11010	E05	6050	51001	MTERFD1	0.1513	1.4167
51027	C07	53353	200030	NBPF11	0.1513	1.4169
11032	F03	9312	2583	B4GALNT1	0.1514	1.4172
31010	E02	11733	51473	DCDC2	0.1515	1.4173
31045	D09	6752	51523	CXXC5	0.1516	1.4178
11010	B07	5409	5104	SERPINA5	0.1516	1.4179
51009	G02	52728	83416	FCRL5	0.1519	1.4186
11027	E07	7941	10577	NPC2	0.1519	1.4188
11025	E10	1909	1315	COPB1	0.1521	1.4195
11019	E11	6650	29091	STXBP6	0.1523	1.4199
31003	E05	10303	23560	GTPBP4	0.1523	1.4200
51022	G02	56648	3833	KIFC1	0.1524	1.4205
31013	F09	12146	113251	LARP4	0.1526	1.4210
31025	A11	14080	6369	CCL24	0.1526	1.4211
11014	E03	4873	25904	CNOT10	0.1527	1.4212
11020	F05	5813	1155	TBCB	0.1527	1.4212
11078	B05	1452	205564	SENP5	0.1527	1.4213
31018	D03	12941	79630	C1orf54	0.1528	1.4217
11055	A12	3097	57333	RCN3	0.1530	1.4222
11011	B11	5446	2266	FGG	0.1530	1.4225
11034	B02	3283	79000	C1orf135	0.1532	1.4229
31008	A01	11684	375248	ANKRD36	0.1533	1.4232
11060	D07	950	7978	MTERF	0.1534	1.4235
51011	D05	52863	7582	ZNF33B	0.1534	1.4237
11010	E09	7441	29890	RBM15B	0.1535	1.4241
11025	A09	9442	54882	ANKHD1	0.1536	1.4242
11027	C11	2135	284040	CDRT4	0.1536	1.4243
11034	F05	1766	5481	PPID	0.1536	1.4244
11011	G07	780	151011	SEPT10	0.1537	1.4247
31025	B03	13458	1653	DDX1	0.1537	1.4247
11065	C11	844	10367	CBARA1	0.1538	1.4251
51034	C02	53986	3467	IFNW1	0.1542	1.4263
51034	H02	54297	282618	IL29	0.1543	1.4266
11011	A02	7109	23157	SEPT6	0.1543	1.4266
31031	F09	14483	57157	PHTF2	0.1544	1.4269
51024	F08	56293	1301	COL11A1	0.1546	1.4275
11010	F02	3778	28969	BZW2	0.1548	1.4283
11071	E07	7461	10767	HBS1L	0.1549	1.4286
11052	C08	8660	26084	SGEF	0.1549	1.4287
31022	H04	13575	27004	TCL6	0.1550	1.4287
31008	E09	11815	354	KLK3	0.1550	1.4288

31018	E12	12896	117247	SLC16A10	0.1550	1.4290
11027	D09	6069	4069	LYZ	0.1552	1.4294
51018	H02	56003	54848	ARHGEF38	0.1554	1.4303
31043	D06	6545	27245	AHDC1	0.1555	1.4304
11009	C01	5194	84993	UBL7	0.1556	1.4307
11050	H07	4528	6809	STX3	0.1556	1.4310
51028	A07	53182	57396	CLK4	0.1559	1.4319
31020	C06	13204	51170	HSD17B11	0.1559	1.4320
51023	E03	56231	23762	OSBP2	0.1559	1.4320
51025	E08	53172	23613	ZMYND8	0.1561	1.4324
51011	H10	55071	284071	C17orf104	0.1562	1.4327
11008	B05	187	3171	FOXA3	0.1565	1.4339
11010	H04	5187	3624	INHBA	0.1567	1.4345
11035	C12	3582	80723	TMEM22	0.1568	1.4348
11055	H11	1995	122011	CSNK1A1L	0.1569	1.4353
11034	F08	3286	2762	GMDS	0.1570	1.4355
51020	D06	56618	127602	DNAH14	0.1572	1.4363
31044	G09	631	51026	GOLT1B	0.1574	1.4369
31016	A12	12559	94240	EPSTI1	0.1574	1.4369
31005	C02	10942	255426	RASGEF1C	0.1575	1.4372
11038	D10	5625	27067	STAU2	0.1576	1.4373
51032	B12	56514	4250	SCGB2A2	0.1576	1.4373
31024	A10	13398	151230	KLHL23	0.1576	1.4376
51010	B04	52704	56131	PCDHB4	0.1577	1.4378
11034	H01	7432	5269	SERPINB6	0.1577	1.4378
11014	A08	210	5627	PROS1	0.1581	1.4391
11076	G06	1632	79648	MCPH1	0.1582	1.4394
31002	G08	10758	9388	LIPG	0.1583	1.4397
51004	G11	54843	6718	AKR1D1	0.1583	1.4398
51024	A06	54372	6249	CLIP1	0.1583	1.4399
51028	B04	56075	23326	USP22	0.1583	1.4399
11044	B09	2776	1635	DCTD	0.1583	1.4399
11032	B02	7691	10253	SPRY2	0.1588	1.4416
11054	A10	6225	51465	UBE2J1	0.1589	1.4417
31015	H02	12597	25798	BRI3	0.1591	1.4425
31012	D06	12156	NA	NA	0.1593	1.4430
11005	G08	8324	56906	THAP10	0.1593	1.4430
11041	H06	9000	54583	EGLN1	0.1593	1.4431
11027	G09	284	57146	TMEM159	0.1593	1.4432
11060	A09	3481	9709	HERPUD1	0.1594	1.4436
11015	B04	5673	5350	PLN	0.1599	1.4450
31044	H03	4926	6474	SHOX2	0.1599	1.4452
51034	E11	54703	26539	OR10H1	0.1599	1.4453
11057	H11	491	64118	DUS1L	0.1600	1.4454

31041	A12	4893	6745	SSR1	0.1602	1.4460
11072	B01	2313	1606	DGKA	0.1605	1.4470
11026	D11	2292	439933	MGC42157	0.1607	1.4477
11062	D04	9307	5170	PDPK1	0.1612	1.4494
11069	B09	9354	200958	MUC20	0.1612	1.4495
11041	A08	8673	1486	CTBS	0.1613	1.4497
51033	F08	54281	286006	C7orf53	0.1614	1.4500
11014	E05	194	2145	EZH1	0.1614	1.4503
11057	B08	8288	914	CD2	0.1617	1.4512
11055	G01	9544	79612	NAA16	0.1617	1.4513
11061	D10	4428	55501	CHST12	0.1623	1.4532
11086	E01	2262	255022	CALHM1	0.1624	1.4536
11053	F10	595	4072	EPCAM	0.1626	1.4542
51016	C03	54431	4707	NDUFB1	0.1635	1.4570
51034	F07	53536	9906	SLC35E2	0.1636	1.4574
11042	B11	8834	5889	RAD51C	0.1642	1.4596
51011	E04	53566	147686	ZNF418	0.1646	1.4608
11019	A04	7312	399	RHOH	0.1650	1.4623
51008	F08	55158	57529	RGAG1	0.1651	1.4627
11050	E06	1735	4507	MTAP	0.1653	1.4631
11044	G06	2635	80117	ARL14	0.1654	1.4636
11034	A07	1223	2781	GNAZ	0.1654	1.4636
31005	F08	11100	6477	SIAH1	0.1654	1.4637
51014	C11	52795	285242	HTR3E	0.1660	1.4654
11027	C07	2566	90411	MCFD2	0.1660	1.4656
31022	G04	13379	9349	RPL23	0.1661	1.4658
11054	H05	1131	134	ADORA1	0.1662	1.4662
11069	G10	7888	375133	PI4KAP2	0.1663	1.4664
11081	A12	1251	6691	SPINK2	0.1665	1.4673
11065	G10	1178	7766	ZNF223	0.1667	1.4679
11025	A05	9692	535	ATP6V0A1	0.1671	1.4692
11041	C07	7484	81853	TMEM14B	0.1673	1.4699
11028	B05	1425	116461	TSEN15	0.1673	1.4700
11037	C04	3636	55722	CEP72	0.1675	1.4705
11029	G05	804	2941	GSTA4	0.1675	1.4706
31014	H01	12224	28987	NOB1	0.1677	1.4712
51015	A05	52789	338398	TAS2R60	0.1678	1.4718
51013	H09	53921	55733	HHAT	0.1678	1.4718
11063	H06	7310	10924	SMPDL3A	0.1681	1.4726
11068	H07	7235	9197	SLC33A1	0.1681	1.4726
31019	E07	13203	3514	IGKC	0.1681	1.4728
51021	A01	56590	51182	HSPA14	0.1682	1.4729
31004	H08	11285	55022	PID1	0.1682	1.4729
31045	B09	3356	79041	TMEM38A	0.1684	1.4738

11065	D12	7584	51067	YARS2	0.1684	1.4738
11064	G06	5124	25813	SAMM50	0.1686	1.4744
31033	E02	14725	5792	PTPRF	0.1691	1.4761
11037	C08	6395	51135	IRAK4	0.1692	1.4763
11057	A08	10180	6483	ST3GAL2	0.1692	1.4763
51010	C03	54688	84873	GPR128	0.1693	1.4768
11012	A08	2995	2558	GABRA5	0.1694	1.4769
51015	F11	52838	8742	TNFSF12	0.1694	1.4770
11018	A09	7708	6147	RPL23A	0.1697	1.4781
11062	D01	4076	2717	GLA	0.1697	1.4781
11020	A07	7565	64100	ELSPBP1	0.1705	1.4809
11019	C12	7723	127396	ZNF684	0.1707	1.4815
51016	A09	55971	285733	LOC285733	0.1707	1.4816
11050	G02	222	219844	HYLS1	0.1709	1.4821
11010	E10	6211	570	BAAT	0.1709	1.4822
11063	A09	4923	10884	MRPS30	0.1709	1.4823
51022	B09	56177	10371	SEMA3A	0.1709	1.4823
31023	B01	13335	86614	HSFY1	0.1712	1.4833
11034	C05	6702	56945	MRPS22	0.1715	1.4841
51027	F05	56081	1617	DAZ1	0.1716	1.4844
31007	A03	11228	9213	XPR1	0.1719	1.4857
31004	H05	11289	27297	CRCP	0.1720	1.4860
11067	G09	4653	81556	C15orf44	0.1722	1.4866
11064	A07	8081	57707	KIAA1609	0.1726	1.4879
31001	H01	10450	317671	RFESD	0.1727	1.4885
11032	H06	1516	146894	CD300LG	0.1728	1.4886
11054	H10	6091	79037	PVRIG	0.1728	1.4887
11034	H03	6400	55785	FGD6	0.1730	1.4895
11034	H05	2572	7299	TYR	0.1735	1.4909
11027	B07	892	2286	FKBP2	0.1735	1.4910
11088	G09	2946	25821	MTO1	0.1736	1.4914
31004	D02	10280	9759	HDAC4	0.1743	1.4937
31001	C02	10289	55608	ANKRD10	0.1745	1.4944
51029	G07	55688	7482	WNT2B	0.1746	1.4950
51009	H06	54049	348654	GEN1	0.1749	1.4959
11014	A06	989	9513	FXR2	0.1751	1.4967
11088	E02	9801	55841	WWC3	0.1756	1.4982
11011	D01	6221	1487	CTBP1	0.1756	1.4983
11067	B08	9923	29785	CYP2S1	0.1757	1.4985
11011	G05	3150	1743	DLST	0.1757	1.4987
11012	B07	163	4090	SMAD5	0.1758	1.4989
11034	H06	3169	5710	PSMD4	0.1764	1.5009
11034	G08	1311	168433	RNF133	0.1765	1.5013
51021	D06	56602	54813	KLHL28	0.1766	1.5016

11060	A01	2525	7108	TM7SF2	0.1767	1.5019
11063	G05	5074	26277	TINF2	0.1767	1.5021
11073	E05	3761	3399	ID3	0.1773	1.5043
31003	G03	10524	9236	CCPG1	0.1776	1.5052
11026	C07	9431	414927	MGC34796	0.1782	1.5074
11081	A07	3188	1350	COX7C	0.1788	1.5092
11020	E11	5696	51074	APIP	0.1791	1.5103
31044	C11	1644	23429	RYBP	0.1797	1.5124
11067	H11	7301	50945	TBX22	0.1798	1.5130
11066	A10	1396	221016	CCDC7	0.1798	1.5130
11054	F09	3915	27173	SLC39A1	0.1799	1.5132
51029	A08	53147	164045	HFM1	0.1815	1.5188
51015	D07	52805	285498	RNF212	0.1816	1.5190
31008	C06	11686	29990	PILRB	0.1816	1.5192
51018	F11	56754	137075	CLDN23	0.1823	1.5217
31015	G08	12578	92002	FAM58A	0.1824	1.5218
11050	D02	1647	81542	TMX1	0.1827	1.5229
11043	F05	5538	1070	CETN3	0.1831	1.5243
51022	H01	56165	4064	CD180	0.1832	1.5246
31009	G07	11722	54440	SASH3	0.1833	1.5250
11034	F11	8682	154865	IQUB	0.1833	1.5252
11044	A08	7395	2512	FTL	0.1833	1.5252
11065	F10	7188	6672	SP100	0.1835	1.5259
11035	E05	1199	163486	DENND1B	0.1839	1.5271
11047	E05	2422	134147	CMBL	0.1839	1.5272
11041	A05	5606	54205	CYCS	0.1840	1.5275
31020	G06	12924	549	AUH	0.1850	1.5310
31028	H06	14104	158219	TTC39B	0.1856	1.5333
31044	E06	3243	6950	TCP1	0.1857	1.5336
11068	A02	9710	1583	CYP11A1	0.1863	1.5356
31043	G01	7511	401152	C4orf3	0.1864	1.5361
51022	A03	56161	28990	ASTE1	0.1868	1.5375
11034	H02	7934	5272	SERPINB9	0.1873	1.5394
51024	B07	56283	7226	TRPM2	0.1876	1.5402
11021	B06	5797	5682	PSMA1	0.1877	1.5406
11062	B02	1984	10773	ZBTB6	0.1878	1.5410
11019	B04	7968	23509	POFUT1	0.1878	1.5411
31009	F08	11497	23705	CADM1	0.1881	1.5421
11047	D12	1617	136263	C7orf45	0.1883	1.5429
11056	D04	5776	3382	ICA1	0.1884	1.5432
11046	G05	1329	9653	HS2ST1	0.1885	1.5435
11065	F02	4999	3500	IGHG1	0.1886	1.5439
11055	E04	2118	9650	MTRF1	0.1891	1.5456
31024	A07	13577	10811	NOXA1	0.1900	1.5486

11029	A09	3336	5957	RCVRN	0.1901	1.5492
11034	A10	3668	8878	SQSTM1	0.1902	1.5496
31001	G07	10567	2730	GCLM	0.1906	1.5509
11054	H08	245	64223	MLST8	0.1909	1.5519
11040	B04	5041	84772	MGC13008	0.1911	1.5527
31010	H06	11416	57506	MAVS	0.1911	1.5529
31002	A03	10401	153241	CEP120	0.1912	1.5532
11020	G07	9022	6668	SP2	0.1923	1.5570
51034	C12	53700	120065	OR5P2	0.1940	1.5632
11042	F05	962	1964	EIF1AX	0.1942	1.5638
31003	B02	10381	162387	MFSD6L	0.1944	1.5645
11065	F09	7063	9093	DNAJA3	0.1947	1.5658
11054	H09	2716	79023	NUP37	0.1950	1.5668
31003	G07	10649	401145	FAM190A	0.1952	1.5675
11068	D04	9324	2328	FMO3	0.1953	1.5678
51016	F09	56194	340542	BEX5	0.1954	1.5682
11074	A09	4149	79154	DHRS11	0.1954	1.5683
51017	D12	56362	3925	STMN1	0.1955	1.5685
51017	G07	56507	130813	C2orf50	0.1968	1.5733
11048	A09	2816	713	C1QB	0.1973	1.5749
11054	C11	8126	54762	GRAMD1C	0.1976	1.5761
11034	D06	9401	56965	PARP6	0.1987	1.5800
11045	G07	8490	199964	TMEM61	0.1989	1.5808
11067	A09	6437	8050	PDHX	0.1991	1.5815
11081	B07	3663	29923	C7orf68	0.1999	1.5845
51021	H09	56216	51276	ZNF571	0.2000	1.5849
31014	C08	11892	116085	SLC22A12	0.2001	1.5854
11034	G06	6237	2852	GPER	0.2010	1.5885
11065	G01	7823	3268	AGFG2	0.2012	1.5894
51006	D06	55380	54704	PDP1	0.2021	1.5925
11020	F07	5517	7172	TPMT	0.2022	1.5930
31030	C05	14369	127254	C1orf173	0.2036	1.5980
11027	A07	2990	51693	TRAPPC2L	0.2036	1.5980
51034	E10	54211	259290	TAS2R31	0.2037	1.5983
11063	H10	121	57120	GOPC	0.2039	1.5991
11065	F12	948	83480	PUS3	0.2040	1.5997
31008	G07	11453	89894	TMEM116	0.2040	1.5997
31001	H09	10522	122060	SLAIN1	0.2046	1.6016
51010	B03	52683	56133	PCDHB2	0.2056	1.6053
11027	F03	3654	2524	FUT2	0.2056	1.6054
51011	F07	52873	3161	HMMR	0.2058	1.6061
11008	D06	3203	30968	STOML2	0.2067	1.6096
11037	A09	3445	4678	NASP	0.2068	1.6100
51010	H11	52864	8747	ADAM21	0.2072	1.6112

11034	A04	4715	384	ARG2	0.2074	1.6121
11084	H03	7365	6137	RPL13	0.2083	1.6154
11065	C01	2051	10269	ZMPSTE24	0.2098	1.6212
31031	E05	14572	51561	IL23A	0.2112	1.6263
11062	A09	7178	9514	GAL3ST1	0.2122	1.6299
11055	D05	4101	1520	CTSS	0.2128	1.6324
31016	C12	12674	35	ACADS	0.2132	1.6337
11055	D08	6932	5954	RCN1	0.2136	1.6353
31029	C06	14309	51119	SBDS	0.2137	1.6359
51018	A04	55787	142686	ASB14	0.2139	1.6364
51011	H11	53624	7638	ZNF221	0.2143	1.6381
11063	H11	8330	653	BMP5	0.2144	1.6383
11041	D07	819	90488	C12orf23	0.2148	1.6399
11027	C04	8235	83692	CD99L2	0.2154	1.6420
51008	H06	55213	5800	PTPRO	0.2156	1.6428
51028	A09	53351	80108	ZFP2	0.2156	1.6428
11065	D04	1625	59084	ENPP5	0.2167	1.6472
11029	G04	9151	79896	THNSL1	0.2176	1.6504
31006	H09	11103	843	CASP10	0.2193	1.6571
11067	A11	7879	84680	ACCS	0.2196	1.6580
11059	F08	8320	6442	SGCA	0.2216	1.6657
11080	C12	9542	9918	NCAPD2	0.2225	1.6690
51009	H07	52897	3699	ITIH3	0.2226	1.6695
11034	G10	2086	140625	ACTRT2	0.2230	1.6710
11040	G01	8385	6363	CCL19	0.2234	1.6725
31002	B08	10741	29068	ZBTB44	0.2244	1.6764
51022	H05	55879	3161	HMMR	0.2248	1.6781
11021	A07	7818	158471	PRUNE2	0.2249	1.6784
51014	B06	53063	57054	DAZ3	0.2252	1.6795
11039	D06	1365	133482	SLCO6A1	0.2259	1.6823
11089	F04	3047	55244	SLC47A1	0.2270	1.6864
11038	C08	4709	6642	SNX1	0.2275	1.6886
31023	D01	13438	83734	ATG10	0.2278	1.6895
11024	H07	9223	2242	FES	0.2293	1.6953
11082	A03	2222	283197	C11orf64	0.2294	1.6959
11025	H08	1601	5921	RASA1	0.2301	1.6987
51018	H08	55774	6191	RPS4X	0.2320	1.7059
11003	A11	5283	84964	ALKBH6	0.2321	1.7066
31004	H07	11060	118812	MORN4	0.2349	1.7177
11065	D01	5817	8220	DGCR14	0.2359	1.7214
11035	G07	3662	10422	UBAC1	0.2363	1.7229
11065	C02	4749	25814	ATXN10	0.2371	1.7264
11071	G02	8267	151790	WDR49	0.2372	1.7267
11068	A01	2290	10943	MSL3	0.2385	1.7317

11041	C08	1098	6372	CXCL6	0.2396	1.7362
51022	E05	56317	90167	FRMD7	0.2401	1.7384
11065	A01	2574	8908	GYG2	0.2406	1.7403
51008	H03	55109	5978	REST	0.2412	1.7427
11057	C09	8037	623	BDKRB1	0.2437	1.7526
11027	E05	900	81856	ZNF611	0.2437	1.7527
31045	B06	2646	84663	CYorf15B	0.2448	1.7572
11026	E09	621	653784	MZT2A	0.2480	1.7703
51010	C02	53861	8641	PCDHGB4	0.2491	1.7745
11069	G04	8400	147687	ZNF417	0.2567	1.8060
11065	E03	1529	9194	SLC16A7	0.2585	1.8133
11072	F05	1597	50640	PNPLA8	0.2586	1.8139
11065	D10	5154	79731	NARS2	0.2591	1.8159
11032	H07	1949	10026	PIGK	0.2593	1.8166
11041	D06	7516	90736	FAM104B	0.2606	1.8222
51014	E07	53082	339967	TMPRSS11A	0.2607	1.8225
11011	D07	6253	55322	C5orf22	0.2612	1.8247
51016	H05	56803	440145	MZT1	0.2662	1.8457
11014	E02	3053	1295	COL8A1	0.2666	1.8478
31004	G04	11095	399669	ZNF321	0.2668	1.8483
11037	F11	5597	3459	IFNGR1	0.2670	1.8492
31037	C09	14100	127795	C1orf87	0.2684	1.8553
11065	H04	2385	27248	ERLEC1	0.2707	1.8650
11056	H06	3502	822	CAPG	0.2727	1.8737
11030	C01	5553	84125	LRRIQ1	0.2755	1.8858
51014	C07	52722	89777	SERPINB12	0.2762	1.8890
31018	E07	13230	65084	TMEM135	0.2846	1.9257
11064	A09	4105	3866	KRT15	0.2868	1.9354
11032	A09	7415	6696	SPP1	0.2874	1.9382
11038	B05	3408	2271	FH	0.2882	1.9419
11063	B09	7917	57684	ZBTB26	0.2893	1.9466
11066	A07	9201	64506	CPEB1	0.2924	1.9606
11065	F06	9316	6103	RPGR	0.2972	1.9823
31045	A08	4308	84740	AFAP1AS	0.2990	1.9906
11065	G03	664	1890	TYMP	0.3049	2.0178
11035	F03	1339	55900	ZNF302	0.3060	2.0231
11083	C06	776	767	CA8	0.3061	2.0234
31045	F07	9775	23181	DIP2A	0.3136	2.0589
11067	A07	1250	3760	KCNJ3	0.3260	2.1184
31011	E09	12327	284942	RPL23AP82	0.3404	2.1896
31005	B07	10883	55790	CSGALNACT1	0.3465	2.2206
11032	G06	1933	51360	MBTPS2	0.3475	2.2259
11053	E08	2162	160140	C11orf65	0.3615	2.2989
51016	G04	56168	NA	NA	0.3663	2.3241

Table S2. Retest of candidate ORFs in 96-well format. Clones whose fold changes of Fluc/Rluc were > 1.2 or < 0.8 after LEN treatment are labeled with red and yellow, respectively. Clones with p-values < 0.05 are labeled with green. Clone 11024@H07 was excluded due to extremely high Fluc/Rluc values. The criteria for defining positive hits: fold changes of Fluc/Rluc >1.2 or <0.8 with a p-value < 0.05.

Plate	Position	Internal_ID	GENE_ID	Symbol	Fold Change (384 well Primary Screen)	Fluc/Rluc Average (DMSO) (96 well)	Fluc/Rluc Average (LEN) (96 well)	Fluc/Rluc SD (DMSO) (96 well)	Fluc/Rluc SD (LEN) (96 well)	Fold Chang (96 well)	Student's T test P Value
11080	B08	2561	8204	NRIP1	0.454	0.372	0.361	0.049	0.069	0.968	0.788
31004	G10	11261	339512	C1orf110	0.465	0.169	0.168	0.005	0.005	0.994	0.764
11082	B07	9258	389458	LOC389458	0.477	0.998	1.046	0.108	0.132	1.048	0.594
11029	G09	10014	221416	C6orf223	0.485	0.579	0.562	0.015	0.012	0.972	0.140
11082	H06	2406	NA	NA	0.489	0.505	0.545	0.116	0.066	1.079	0.573
11038	B09	6052	1736	DKC1	0.499	0.589	0.585	0.020	0.011	0.993	0.721
51034	H06	54345	55554	KLK15	0.503	0.474	0.523	0.029	0.051	1.104	0.144
31022	H03	13406	91272	BOD1	0.513	0.846	0.839	0.082	0.029	0.992	0.874
11084	G04	8079	122970	ACOT4	0.514	0.318	0.307	0.021	0.025	0.965	0.517
11020	E05	8002	79031	PDCL3	0.516	0.869	0.845	0.028	0.009	0.972	0.150
11064	G07	2289	144577	C12orf66	0.516	0.221	0.233	0.025	0.024	1.055	0.502
11038	H02	2463	9139	CBFA2T2	0.522	0.258	0.263	0.006	0.010	1.018	0.458
11024	F03	4637	629	CFB	0.533	0.231	0.237	0.009	0.012	1.027	0.436
11024	E08	8220	27042	C1orf107	0.535	0.179	0.180	0.018	0.010	1.004	0.944
31024	C04	13407	7266	DNAJC7	0.539	0.367	0.379	0.010	0.029	1.032	0.477
31009	C10	11731	55178	RNMTL1	0.541	0.845	0.893	0.034	0.053	1.056	0.183
31030	F12	14246	4641	MYO1C	0.544	0.824	0.844	0.037	0.023	1.025	0.376
31011	A09	11911	286016	TPIIP2	0.548	0.252	0.257	0.010	0.007	1.020	0.442
11038	G02	5400	54973	CPSF3L	0.549	0.406	0.418	0.017	0.015	1.029	0.333
11058	A12	3916	6944	VPS72	0.568	0.404	0.399	0.005	0.024	0.989	0.725
51013	A07	13943	9247	GCM2	0.569	0.247	0.250	0.016	0.013	1.011	0.790
11072	G10	2659	9779	TBC1D5	0.570	0.977	0.971	0.013	0.090	0.995	0.916
11024	B05	4311	960	CD44	0.571	1.233	1.209	0.044	0.088	0.980	0.633
11082	C07	5600	1208	CLPS	0.574	0.840	0.844	0.037	0.027	1.004	0.882
11065	A06	1209	55808	ST6GALNAC1	0.578	0.300	0.296	0.017	0.013	0.989	0.768
11048	A06	6442	374	AREG	0.579	0.678	0.692	0.100	0.051	1.021	0.810
11084	C07	6790	80233	C17orf70	0.586	0.278	0.277	0.018	0.030	0.996	0.948
11042	G02	8249	219833	C11orf45	0.587	0.650	0.645	0.038	0.028	0.992	0.834
11024	E07	3321	1374	CPT1A	0.589	0.384	0.389	0.026	0.033	1.011	0.844
11042	E08	7003	360132	FKBP9L	0.591	0.246	0.250	0.016	0.009	1.017	0.662
11040	H06	6318	8367	HIST1H4E	0.591	0.815	0.807	0.041	0.017	0.990	0.735
11038	C06	5336	25793	FBXO7	0.601	0.359	0.377	0.016	0.011	1.051	0.100
31002	F06	10315	6557	SLC12A1	0.601	0.889	0.909	0.051	0.050	1.022	0.600
11067	D12	10016	22806	IKZF3	0.602	0.218	0.148	0.003	0.005	0.680	0.000

11038	E08	5255	5327	PLAT	0.602	0.125	0.127	0.013	0.007	1.013	0.830
11029	F05	10136	1588	CYP19A1	0.606	0.468	0.498	0.024	0.018	1.065	0.090
11038	B01	3212	224	ALDH3A2	0.606	0.083	0.088	0.003	0.002	1.056	0.035
31005	G08	10894	160140	C11orf65	0.608	0.300	0.280	0.043	0.008	0.934	0.401
11012	E12	5390	57003	CCDC47	0.608	0.066	0.064	0.003	0.002	0.982	0.484
11083	B04	2738	9804	TOMM20	0.611	0.280	0.203	0.144	0.008	0.723	0.322
31004	A10	11031	6133	RPL9	0.613	0.559	0.523	0.066	0.044	0.936	0.401
11037	H03	4971	9397	NMT2	0.614	1.032	1.045	0.097	0.027	1.012	0.812
11083	A08	9795	25788	RAD54B	0.614	0.368	0.397	0.025	0.056	1.078	0.385
11080	A06	6222	10743	RAI1	0.615	0.058	0.063	0.008	0.007	1.095	0.343
11041	H08	4150	51330	TNFRSF12A	0.616	0.393	0.385	0.009	0.018	0.979	0.451
31007	H04	11248	10640	EXOC5	0.616	0.997	1.005	0.085	0.033	1.008	0.861
51014	B06	53063	57054	DAZ3	1.680	0.775	0.771	0.024	0.085	0.994	0.922
11039	D06	1365	133482	SLCO6A1	1.682	2.075	2.313	0.085	0.421	1.114	0.312
11089	F04	3047	55244	SLC47A1	1.686	0.378	0.382	0.037	0.029	1.010	0.880
11038	C08	4709	6642	SNX1	1.689	2.444	2.482	0.031	0.297	1.015	0.809
31023	D01	13438	83734	ATG10	1.690	0.313	0.330	0.011	0.014	1.054	0.106
11024	H07	9223	2242	FES	1.695	373.184	449.724	44.940	41.568	1.205	0.046
11082	A03	2222	283197	C11orf64	1.696	0.445	0.459	0.102	0.051	1.032	0.812
11025	H08	1601	5921	RASA1	1.699	21.856	22.244	0.813	1.548	1.018	0.673
51018	H08	55774	6191	RPS4X	1.706	0.470	0.488	0.012	0.016	1.038	0.127
11003	A11	5283	84964	ALKBH6	1.707	0.344	0.370	0.012	0.020	1.076	0.067
31004	H07	11060	118812	MORN4	1.718	1.522	1.461	0.205	0.287	0.960	0.742
11065	D01	5817	8220	DGCR14	1.721	0.753	0.765	0.009	0.040	1.015	0.597
11035	G07	3662	10422	UBAC1	1.723	3.280	3.119	0.210	0.070	0.951	0.195
11065	C02	4749	25814	ATXN10	1.726	0.785	0.859	0.040	0.036	1.094	0.032
11071	G02	8267	151790	WDR49	1.727	0.557	0.561	0.040	0.047	1.006	0.917
11068	A01	2290	10943	MSL3	1.732	0.866	0.857	0.136	0.098	0.989	0.913
11041	C08	1098	6372	CXCL6	1.736	16.980	17.302	1.316	1.741	1.019	0.778
51022	E05	56317	90167	FRMD7	1.738	9.785	10.242	1.118	1.398	1.047	0.627
11065	A01	2574	8908	GYG2	1.740	0.481	0.490	0.034	0.029	1.019	0.701
51008	H03	55109	5978	REST	1.743	0.578	0.599	0.015	0.024	1.036	0.194
11057	C09	8037	623	BDKRB1	1.753	2.940	2.967	0.414	0.542	1.009	0.940
11027	E05	900	81856	ZNF611	1.753	1.939	1.956	0.047	0.119	1.009	0.797
31045	B06	2646	84663	CYorf15B	1.757	4.298	4.090	0.269	0.309	0.952	0.349
11026	E09	621	653784	MZT2A	1.770	1.592	1.620	0.044	0.100	1.017	0.630
51010	C02	53861	8641	PCDHGB4	1.775	0.695	0.676	0.062	0.044	0.973	0.638
11069	G04	8400	147687	ZNF417	1.806	0.212	0.210	0.011	0.012	0.992	0.839
11065	E03	1529	9194	SLC16A7	1.813	2.835	3.291	0.317	0.313	1.161	0.086
11072	F05	1597	50640	PNPLA8	1.814	0.493	0.549	0.055	0.099	1.113	0.364
11065	D10	5154	79731	NARS2	1.816	0.202	0.204	0.017	0.013	1.011	0.848

11032	H07	1949	10026	PIGK	1.817	10.113	10.309	0.570	0.212	1.019	0.544
11041	D06	7516	90736	FAM104B	1.822	4.086	4.029	0.087	0.239	0.986	0.670
51014	E07	53082	339967	TMPRSS11A	1.823	0.475	0.484	0.031	0.017	1.018	0.645
11011	D07	6253	55322	C5orf22	1.825	2.617	2.713	0.270	0.156	1.037	0.563
51016	H05	56803	440145	MZT1	1.846	0.422	0.366	0.060	0.035	0.868	0.161
11014	E02	3053	1295	COL8A1	1.848	0.456	0.490	0.031	0.012	1.075	0.085
31004	G04	11095	399669	ZNF321	1.848	5.557	5.419	0.295	0.192	0.975	0.463
11037	F11	5597	3459	IFNGR1	1.849	1.134	1.045	0.077	0.068	0.921	0.132
31037	C09	14100	127795	C1orf87	1.855	0.767	0.819	0.034	0.037	1.067	0.086
11065	H04	2385	27248	ERLEC1	1.865	0.767	0.712	0.041	0.057	0.928	0.162
11056	H06	3502	822	CAPG	1.874	0.064	0.062	0.001	0.001	0.969	0.054
11030	C01	5553	84125	LRRIQ1	1.886	0.710	0.760	0.043	0.051	1.071	0.184
51014	C07	52722	89777	SERPINB12	1.889	2.124	2.107	0.078	0.071	0.992	0.752
31018	E07	13230	65084	TMEM135	1.926	1.386	1.401	0.108	0.133	1.011	0.866
11064	A09	4105	3866	KRT15	1.935	1.467	1.388	0.088	0.079	0.946	0.233
11032	A09	7415	6696	SPP1	1.938	5.890	5.989	0.321	0.180	1.017	0.610
11038	B05	3408	2271	FH	1.942	0.690	0.691	0.015	0.015	1.001	0.952
11063	B09	7917	57684	ZBTB26	1.947	2.168	2.273	0.217	0.104	1.049	0.415
11066	A07	9201	64506	CPEB1	1.961	0.667	0.687	0.050	0.024	1.030	0.501
11065	F06	9316	6103	RPGR	1.982	1.752	1.743	0.073	0.190	0.995	0.931
31045	A08	4308	84740	AFAP1AS	1.991	0.445	0.419	0.015	0.013	0.942	0.056
11065	G03	664	1890	TYMP	2.018	2.278	2.305	0.062	0.044	1.012	0.505
11035	F03	1339	55900	ZNF302	2.023	0.783	0.833	0.023	0.048	1.063	0.116
11083	C06	776	767	CA8	2.023	1.093	0.953	0.380	0.148	0.872	0.519
31045	F07	9775	23181	DIP2A	2.059	0.039	0.039	0.004	0.002	0.995	0.927
11067	A07	1250	3760	KCNJ3	2.118	0.187	0.202	0.002	0.008	1.079	0.009
31011	E09	12327	284942	RPL23AP82	2.190	2.522	2.878	0.310	0.206	1.141	0.104
31005	B07	10883	55790	CSGALNACT1	2.221	1.023	1.087	0.059	0.018	1.062	0.084
11032	G06	1933	51360	MBTPS2	2.226	7.286	7.526	0.432	0.289	1.033	0.391
11053	E08	2162	160140	C11orf65	2.299	0.343	0.412	0.044	0.033	1.203	0.044
51016	G04	56168	NA	NA	2.324	22.589	23.599	0.912	0.424	1.045	0.091
11013	E07	8337	9692	KIAA0391	2.713	12.678	13.558	0.332	0.463	1.069	0.021
11065	D09	2940	10320	IKZF1	0.641	0.315	0.145	0.013	0.008	0.459	0.000

Green P < 0.05

Red Fold > 1.2

Yellow Fold < 0.8

References and Notes

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